WG-604/WG-604P

Easy HotSpot Kit

User's Manual

Handlink Technologies Inc.

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Table of Contents

1 Introduction ---- 5

1-1 Package Contents ---- 5

1-2 Features ---- 6

1-3 Precautions ---- 6

1-4 Outlook ---- 6

1-4-1 Top Panel ---- 7

1-4-2 Rear Panel ---- 7

1-5 Technical Specifications ---- 8

1-5-1 Hardware Specifications ---- 8

1-5-2 Software Specifications ---- 10

2 Installation ---- 12

2-1 Connecting the Antennas ---- 13

2-2 Installation Requirements ---- 13

2-3 Getting Start ---- 15

3 Configuring the Wireless Subscriber Gateway ---- 16

3-1 Setting Wizard ---- 16

3-2 Advanced Setup ---- 39

3-2-1 AUTHENTICATION ---- 40

3-2-2-1 Authentication ---- 40

3-2-2-2 RADIUS ---- 43

3-2-2 BILLING ---- 46

3-2-2-1 Billing ---- 46

3-2-2-2 Accounting ---- 52

3-2-2-3 Credit Card ---- 65

3-2-3 MANAGEMENT ---- 75

3-2-3-1 LAN Devices ---- 75

3-2-3-2 Syslog ---- 77

3-2-3-3 Session Trace ---- 84

3-2-3-4 Bandwidth ---- 86

3-2-3-5 SNMP ---- 87
3-2-4 SECURITY ---- 88
3-2-4-1 Pass Through ---- 88
3-2-4-2 Filtering ---- 90
3-2-4-3 Share ---- 92
3-2-4-4 Secure Remote ---- 94
3-2-5 SYSTEM ---- 95
3-2-4-1 System ---- 95
3-2-4-2 WAN/LAN ---- 98
3-2-4-3 Server ---- 105
3-2-4-4 Keypad ---- 108
3-2-4-5 Customization ---- 116
3-2-4-6 Portal Page ---- 138
3-2-4-7 Advertisement ---- 139
3-2-4-8 Walled Garden ---- 140
3-2-4-9 DDNS ---- 142
3-2-4-10 Wireless ---- 145
3-2-4-11 Account Generator ---- 149
3-3 System Status ---- 151
3-4-1 *System* ---- 152
3-4-2 Account List ---- 154
3-4-3 *Account Log* ---- 155
3-4-4 *Current User* ---- 156
3-4-5 *DHCP Clients* ---- 157
3-4-6 *Session List* ---- 157
3-4-7 *LAN Devices* ---- 158
3-4 System Tools ---- 158
3-4-1 Configuration ---- 159
3-4-2 Firmware Upgrade ---- 160

3-4-3 Boot Code ---- 162
3-4-4 System Account ---- 162
3-4-5 SSL Certificate ---- 167
3-4-6 Pin Command ---- 168
3-4-7 Restart ---- 169
3-4-8 Logout ---- 169
Appendix A Signal Connection Arrangements ---- 170
Appendix B Regulations/EMI Compliance ---- 171
LIMITED WARRANTY ---- 172

1 Introduction

The Wireless Subscriber Gateway is a compact intelligent gateway integrated with a four-port port-based VLAN switch. It provides Plug' Play Internet access, advanced security and network management.

The Wireless Subscriber Gateway is designed for service providers, system integrator or hotspot venue operator without backend-RADIUS-Server to have integrated solution for rapid deployment, which can start hotspot service quickly and easily and enhance service performance.

The Wireless Subscriber Gateway is an ideal solution for hotel lobbies, coffee bars, airport lounges, conference facilities and other sites that commonly host business travelers, and offers instant high-speed Internet connections. With its IP Plug and Play technology, it accepts any client configuration login, when client open browser the Wireless Subscriber Gateway immediately recognizes new end-user and redirects their browser to customized Web pages. There's no need for end-user to change any of their default network (Static IP), e-mail (SMTP Server behind firewall), or browser settings (HTTP Proxy) or load any special software to access hotspot service. It's completely Plug' Play with any browser.

1-1 Package Contents

Please inspect your package. The following items should be included:

◎ ***WG-604***

- One Wireless Subscriber Gateway
- Three antennas
- One AC Power Adapter for Wireless Subscriber Gateway
- One CD containing User's Manual and MIB file
- Two screws for wall-mount
- One UTP Ethernet/Fast Ethernet cable (Cat.5 Twisted-pair)

Optional Product:

◎ ***AG-300E Account Generator Printer***

- One AC Power Adapter for mini account generator printer
- One UTP Ethernet/Fast Ethernet cable (Cat.5 Twisted-pair)
- One Account Generator Printer User's Guide

If any of the above items are damaged or missing, please contact your dealer immediately.

1-2 Features

- Wireless data rates up to 54Mbps
- Supports 100 Simultaneous Users
- IP Plug and Play (iPnP)
- Comprehensive security

  64/128-bit WEP encryption

  WPA encryption

  WPA2 Encryption

  IP/URL filtering
- Intelligent Management
- Built-in AAA (Authentication/Accounting/Authorization) and Billing mechanism

Note: *The "PnP" Function only can be used with TCP/IP-based Network.*

1-3 Precautions

- Never remove or open the cover. You may suffer serious injury if you touch these parts.
- Never install the system in the wet locations.
- Use only the original fitting AC power adapter otherwise there is a danger of severe electrical shock.
- Avoid exposing the Wireless Subscriber Gateway to direct sunlight or another heat source.
- Choose a well-ventilated area to position your Wireless Subscriber Gateway.

1-4 Outlook

Figure 1 Wireless Subscriber Gateway Outlook

1-4-1 Top Panel

The top panel of the Wireless Subscriber Gateway is shown below.

Figure 2 Wireless Subscriber Gateway Top Panel

LEDs Indication

LED	State	Description
PWR	Off	The Wireless Subscriber Gateway is not receiving electrical power.
	Green	The Wireless Subscriber Gateway is receiving electrical power.
SYS	Off	The Wireless Subscriber Gateway status is defective.
	Green	The Wireless Subscriber Gateway status is complete.
	Green (Blinking)	During firmware upgrades, this system LED will blink.
WAN	Off	Port has not established any network connection.
	Green	A port has established a valid 10/100Mbps network connection.
	Green (Blinking)	10/100Mbps traffic is traversing the port.
LAN-1~ LAN-4	Off	Port has not established any network connection.
	Green	A port has established a valid 10/100Mbps network connection.
	Green (Blinking)	10/100Mbps traffic is traversing the port.
WLAN	Off	The Wireless is not ready.
	Green	The Wireless Subscriber Gateway has established a valid wireless connection.
	Green (Blinking)	The Wireless connection is active.

1-4-2 Rear Panel

The rear panel of the Wireless Subscriber Gateway is shown below.

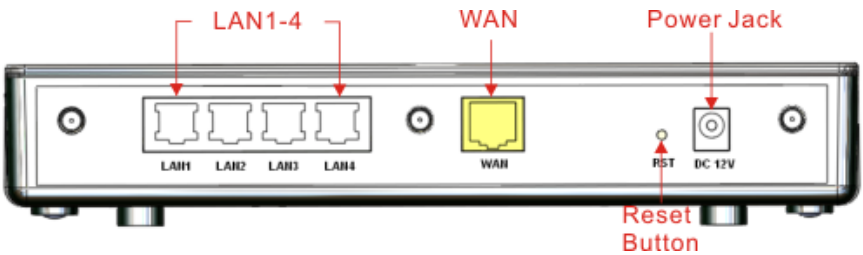


Figure 3 Wireless Subscriber Gateway Rear Panel

1. LAN (1-4):

The rear panel supports four auto-sensing RJ-45 ports and all ports can be auto-switched to MDI-II connections. The LAN ports used for linking hosts or other network devices. The individual port can be either connected to 100BaseTX networks or 10BaseT networks. When connecting to a 100BaseTX network, the ports operate at 100Mbps in half-duplex mode or 200Mbps in full-duplex mode. When connecting to a 10BaseT network, the ports operate at 10Mbps in half-duplex mode or 20Mbps in full-duplex mode.

2. WAN: One Ethernet port used for linking xDSL or Cable Modem.

3. Reset Button:

The Wireless Subscriber Gateway has a reset button at the rear panel of the device. Use this function to reset the system back to factory defaults.

4. Power Jack: Used to connect the external power supply with the Wireless Subscriber Gateway.

1-5 Technical Specifications

1-5-1 Hardware Specifications

Network Specification

IEEE802.3 10BaseT Ethernet

IEEE802.3u 100BaseTX Fast Ethernet

IEEE802.11g Wireless LAN

ANSI/IEEE 802.3 NWay auto-negotiation

Wi-Fi Compatible

Connectors

Four LAN Ports (10BaseT/100BaseTX Auto cross-over)

One WAN Port (10BaseT/100BaseTX Auto cross-over)

Encryption

WEP (Wired Equivalent Privacy) 64/128-bit RC4

WPA (Wi-Fi Protected Access)

WPA2 (Wi-Fi Protected Access)

External Antenna Type

2dBi (Max) Dual detachable diversity antenna with reverse SMA

LED Indicators

One POWER LED

One WAN 10/100M Link/Activity LED

Four LAN 10M/100M Link/Activity LEDs

One Wireless Link/Activity LED

One System LED

Power Requirement

External Power Adapter

Input: 100-240 VAC, 50/60 Hz

Output: 12V, 1.5A

Environment Conditions

Operating Temperature: 0 to 50°C

Storage Temperature: -10 to 60°C

Operating Humidity: 10~80% non-condensing

Storage Humidity: 10% to 90% non-condensing

Certifications

FCC part 15 Class B, CE , C-Tick , VCCI

Dimension

Size: 223 (L) x 143 (W) x 36 (H) mm

Weight: About 500g (Net)

Mounting

Desktop, Wall mounted

1-5-2 Software Specifications

Networking

- IEEE802.3 10BaseT Ethernet
- IEEE802.3u 100BaseTX Fast Ethernet
- IEEE802.11b Wireless LAN
- IEEE802.11g Wireless LAN
- IEEE802.11n Wireless LAN
- Supports update to 200 Simultaneous Users
- IP Plug and Play (iPnP)
- HTTP Proxy Support
- SMTP Server Redirection
- DHCP Server
- DHCP Relay
- Static IP WAN Client
- DHCP WAN Client
- PPPoE WAN Client
- PPTP WAN Client
- NAT
- NTP (Network Time Protocol) Support
- DDNS

Marketing Cooperation

- Advertisement URL link
- Walled garden
- Customizable log-on and log-off pages
- Portal Page
- WISPr Smart Client

User Accounting and Authentication

- Built-in Authentication
- Web-based Authentication
- RADIUS AAA Support (RFC 2865, 2866)
- Secondary RADIUS
- User Authentication and Accounting
- Logout Window Timer Control

Security and Firewall

- Layer 2 Isolation Security
- SSL User Login page/ Configuration Page
- SSL Administration
- VPN Pass through (IPSec/PPTP)
- Customize SSL Certificate
- Pass Through IP/MAC/URL Address
- Restricted Destination Filtering IP/URL
- VPN (IPSec/PPTP) Pass through
- PPTP VPN Client
- WEP
- WPA
- WPA2
- WPA/WPA2 Mix mode

Management

- Web-based Management Tool
- Firmware Upgrade via HTTP/TFTP
- Wizard setup for step-by-step Configuration
- Backup/Restore/Factory Default Setting
- Remote Authorized Management
- Real-time Session List
- LAN Device Management
- Syslog (System/Subscriber/LAN device)
- E-mail logs
- SNMP v1/v2 (MIB II, Private MIB)
- System Information Table
- Status Report (Daily/Monthly/System/Network)
- SSL certificate upload

Extra Function with optional AG-300E

- Local Authentication
- Local Accounting
- Local Billing

AG-300E Account Generator (Thermal Printer)

- Interface: Ethernet
- Print Width: 48mm (Paper width: 58mm)
- Paper Length: 50 M

2 Installation

The followings are instructions for setting up the Wireless Subscriber Gateway. Refer to the illustration and follow the simple steps below to quickly install your Wireless Subscriber Gateway.

Wall-Mounting

The Wireless Subscriber Gateway can be wall-mounted on a wall by applying the two mounting brackets on screws.

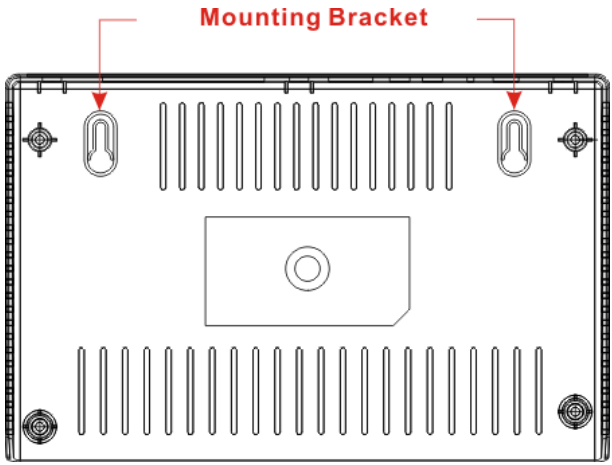


Figure 4 Wall-Mounting Bracket - Bottom of Wireless Subscriber Gateway

Please refer to the following instructions for mounting a Wireless Subscriber Gateway on a wall or other surface.

1. Install two screws on a wall according to the relative positions shown below.

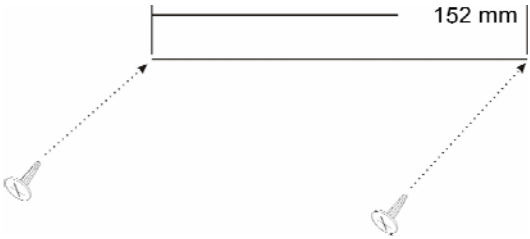


Figure 5

2. Hang Wireless Subscriber Gateway on the wall by sliding the two screws in the mounting brackets.

***Note**: If the screws are not properly anchored, the strain of the cables connected to the Wireless Subscriber Gateway rear panel connectors could pull out the Wireless Subscriber Gateway from the wall.*

2-1 Connecting the Antennas

The Wireless Subscriber Gateway provides two antenna connectors on the rear of the unit.

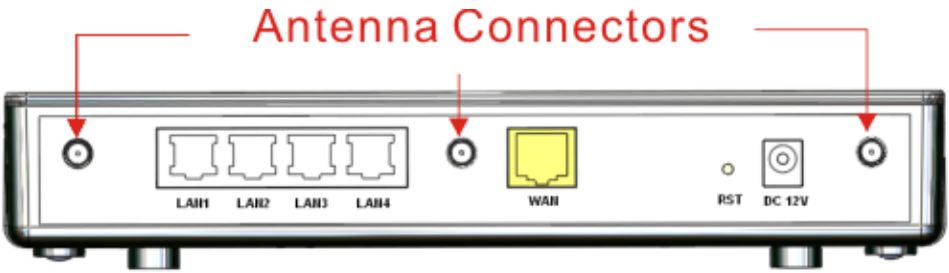


Figure 6 Antenna Connectors

2-2 Installation Requirements

Before installing the Wireless Subscriber Gateway, make sure your network meets the following requirements.

System Requirements

The Wireless Subscriber Gateway requires one of the following types of software:

- Windows 98 Second Edition/NT/2000/XP/Vista
- Red Hat Linux 7.3 or later version
- MAC OS X 10.2.4 or later version
- Any TCP/IP-enabled systems like Mac OS and UNIX (TCP/IP protocol installed)
- Standard phone line for xDSL modem Or Coaxial cable for Cable modem
- Web Browser Software (Microsoft I.E 5.0 or later version or Netscape Navigator 5.0 or later version)
- One computer with an installed 10Mbps, 100Mbps or 10/100Mbps Ethernet card
- UTP network Cable with a RJ-45 connection (Package contents)

Note: *Prepare twisted-pair cables with RJ-45 plugs. Use Cat.5 cable for all connections. Make sure each cable not exceed 328 feet (Approximately 100 meters).*

ISP Requirements

Verify whether your ISP use fixed or dynamic IP. If it is a fixed IP, be sure to get the IP from your ISP. For dynamic IP, which is mostly used, the PC will get the IP automatically whenever it hooks up on the modem.

Dynamic IP

- Dynamic IP Setting

Fixed IP

- Your fixed IP address for the Wireless Subscriber Gateway
- Your subnet mask for the Wireless Subscriber Gateway
- Your default gateway IP address
- Your DNS IP address

PPPoE

- Your user name from your ISP
- Your password from your ISP

PPTP

- PPTP Server IP Address from your ISP
- PPTP Local IP address from your ISP.
- PPTP Local IP subnet mask from your ISP.
- Your user name from your ISP
- Your password from your ISP
- Your PC Requirements

The Static IP settings for the PC

- Your PC's fixed IP address
- Your PC's subnet mask
- Your PC's default gateway IP address
- Your PC's primary DNS IP address

Note:

1. The gateway's default IP address setting is "10.59.1.1".

2. The gateway's default subnet mask setting is "255.0.0.0".

The Dynamic IP settings for the PC

We recommend that you leave your IP settings as automatically assigned. By default, the Wireless Subscriber Gateway is a DHCP server, and it will give your PC the necessary IP settings.

2-3 Getting Start

1. Place the Wireless Subscriber Gateway and AG-300E Printer on a flat work surface.
2. Connect the Ethernet cable to the Wireless Subscriber Gateway's LAN port.
3. Connect the other end of the Ethernet cable to the AG-300E Account Generator Printer's RJ45 port.
4. Ensure that your modem and computer are both switched on.
5. Use the supplied cable to connect the Wireless Subscriber Gateway's WAN port to the modem. Check that the Cable/xDSL Status LED lights.
6. Connect your computer to one of the 10/100 LAN ports on the Wireless Subscriber Gateway. Check that the LAN Port Status LED lights.
7. Configure the further parameters via a Web browser.

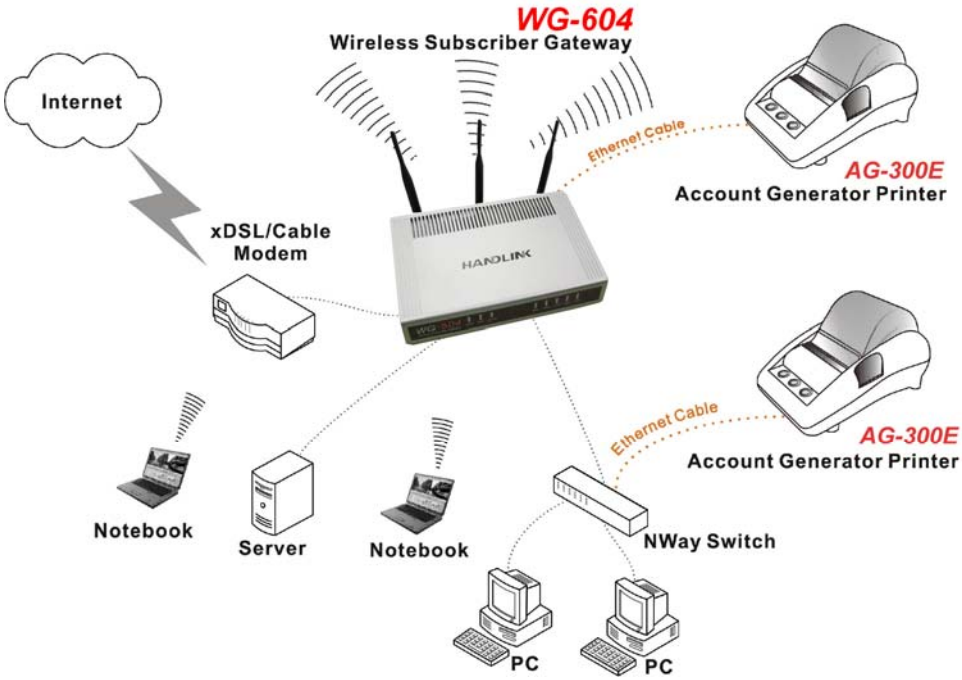


Figure 7 Wireless Subscriber Gateway Connection

3 Configuring the Wireless Subscriber Gateway

3-1 Setting Wizard

Step 1: Start your browser, and then enter the factory default IP address **10.59.1.1** in your browser's location box. Press **Enter**.

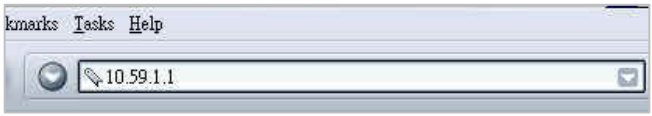


Figure 8 Web Browser Location Field (Factory Default)

Step 2: The Wireless Subscriber Gateway configuration tools menu will appear. In the Username and Password field, type the factory default user name **admin** and password **admin** and click **Login**. If you are first time setting the system, the wizard setup screen will appear. You will be guided, step-by-step, through a basic setup procedure.

Figure 9 Configuration Tools Menu

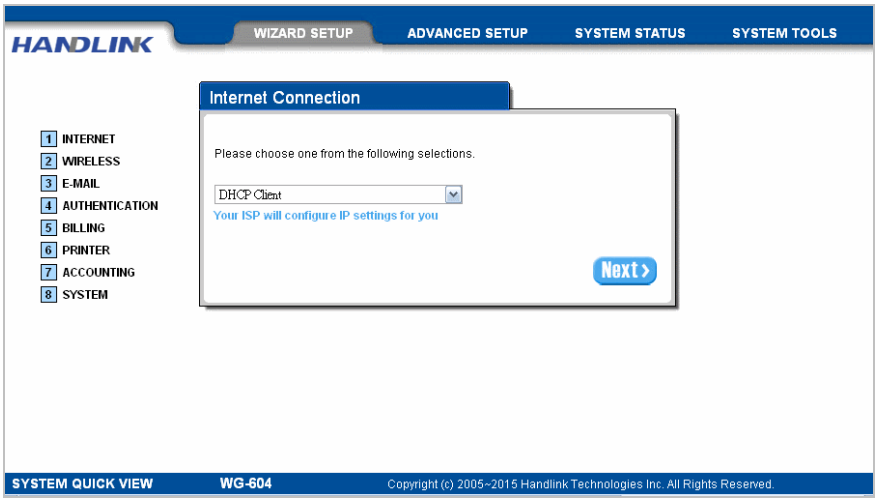


Figure 10 Wizard Setup Screen

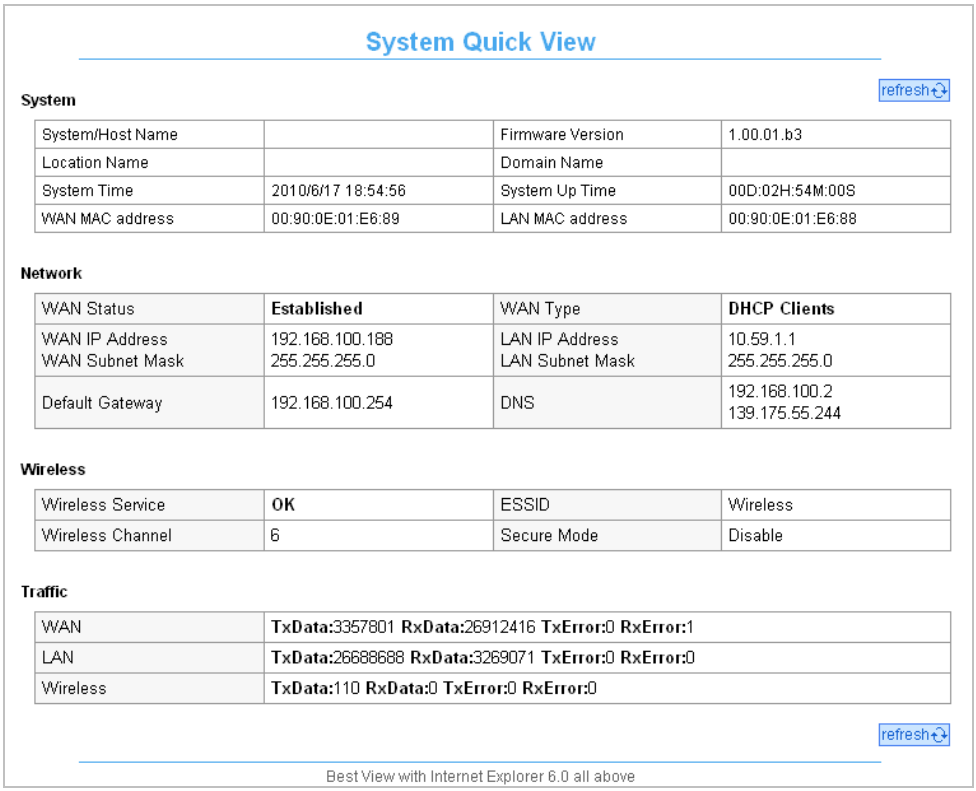


Figure 11 System Quick View

Click on reset button to clear the username and password data.

Note:

- *This Web agent is best viewed with IE 5.0 or Netscape 6.0 and above browsers.*
- *If you would like to change the password please see Step 10.*
- *Username and Password can consist of up to 20 alphanumeric characters and are case sensitive.*
- *If for some reason your password is lost or you cannot gain access to the Wireless Subscriber Gateway Configuration Program, please press the reset button to load the device to manufacturer defaults.*
- *If the Wireless Subscriber Gateway doesn't send packet in 5 minutes (default), the Wireless Subscriber Gateway wills logout automatically.*
- Proxy needs to set disable first when administrator accesses admin UI.

Step 3: Internet Connection Setting

Select the appropriate Internet connection type to connect to your ISP.

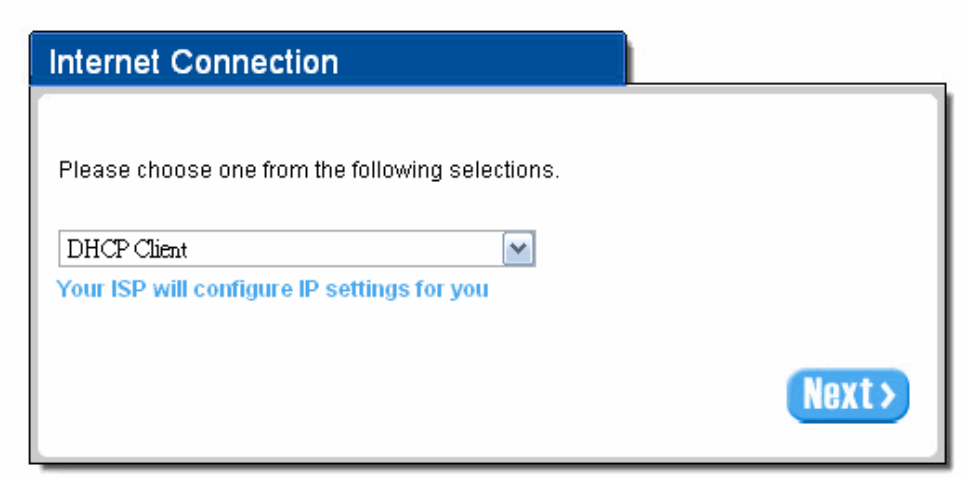

Internet Connection
Please choose one from the following selections.
DHCP Client
Your ISP will configure IP settings for you
Next

Figure 12 Internet Connection Setting Screen

- **DHCP Client**

The device can work as a DHCP client. This allows the device to obtain the IP address and other TCP/IP settings from your ISP. If your xDSL/Cable comes with this feature, please enable Use DHCP Client.

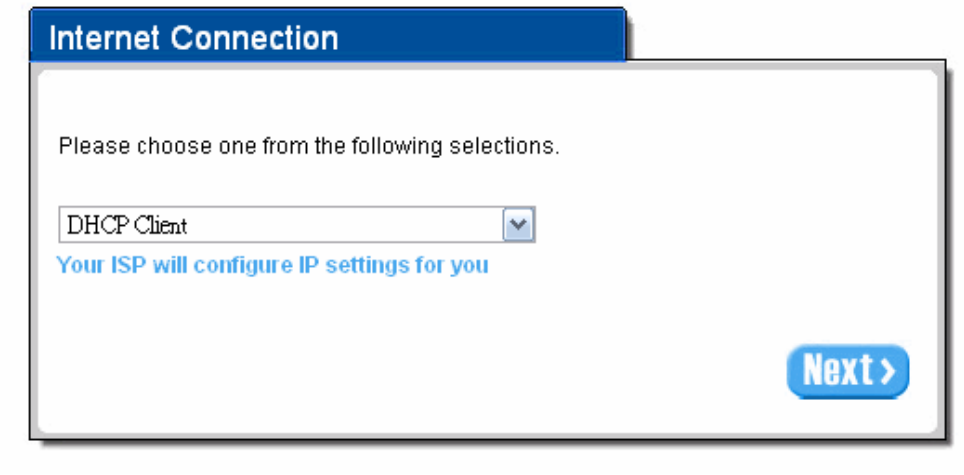

Internet Connection
Please choose one from the following selections.
DHCP Client
Your ISP will configure IP settings for you
Next

Figure 13 Internet Connection Setting Screen—DHCP Client Setti

- **Static IP Setting**

If **Static IP Setting** is selected, then this screen will appear. Enter the IP address information provided by your ISP.

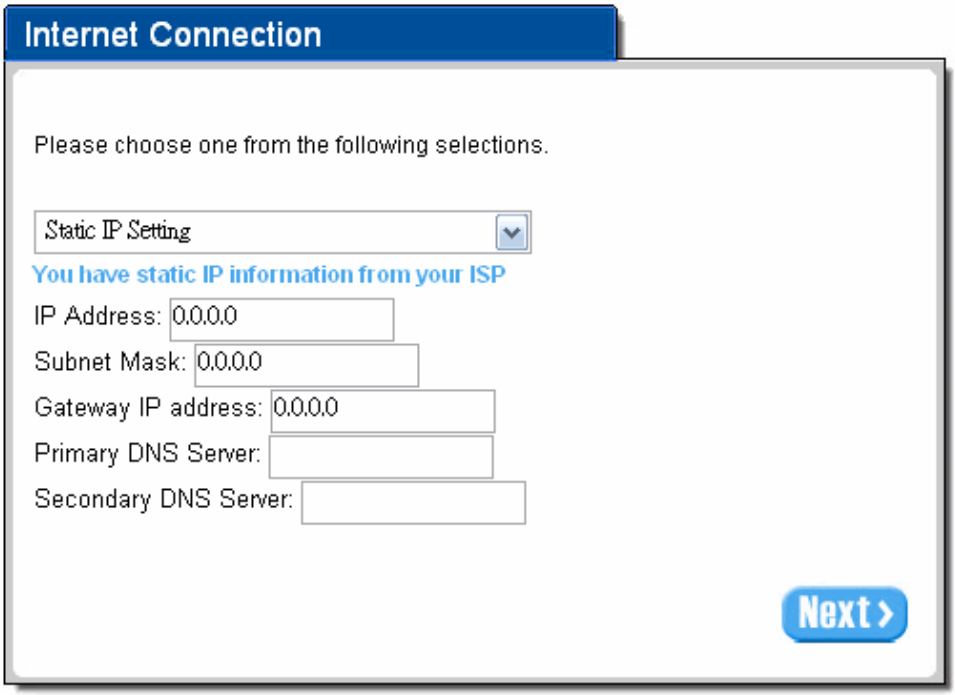


Figure 14 Internet Connection Setting Screen—Static IP Setting

Item	Default	Description
IP Address	0.0.0.0	Enter the IP address provided by your ISP.
Subnet Mask	0.0.0.0	Enter the subnet mask for the IP address.
Gateway IP Address	0.0.0.0	Enter the Gateway IP Address provided by your ISP.
Primary DNS Server	Empty	Enter the primary DNS server IP address for the xDSL/Cable connection (provided by your ISP).
Secondary DNS Server	Empty	Enter the secondary DNS server IP address for the xDSL/Cable connection (provided by your ISP). If the primary DNS Server IP were not available, meanwhile, Secondary DNS Server IP would start in the same time.

- **PPPoE (Point-to-Point Protocol over Ethernet)**

If “PPPoE” is selected, then this screen will appear. Enter the username, password and other major fields.

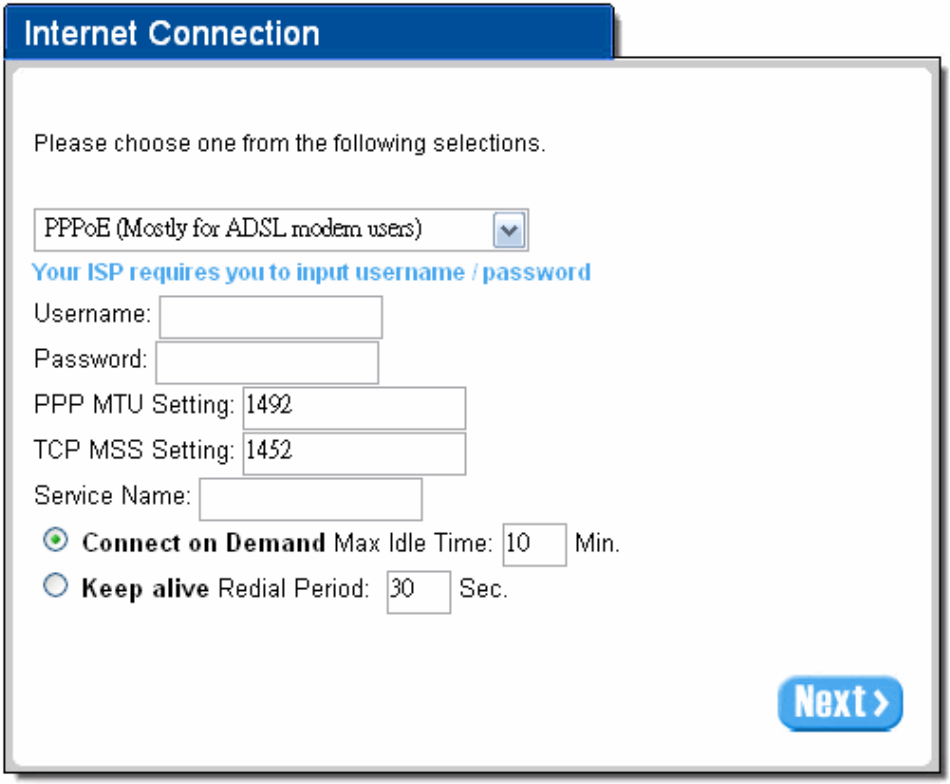

Internet Connection
Please choose one from the following selections.
PPPoE (Mostly for ADSL modem users)
Your ISP requires you to input username / password
Username:
Password:
PPP MTU Setting: 1492
TCP MSS Setting: 1452
Service Name:
Connect on Demand Max Idle Time: 10 Min.
Keep alive Redial Period: 30 Sec.
Next ›

Figure 15 Internet Connection Setting Screen—PPPoE Setting

Item	Default	Description
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1492	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1452	MSS (Maximum Segment Size) specifies maximum segment size.
Service Name	Empty	Enter the service name provided by your ISP. The service name can consist of up to 64 alphanumeric characters and is case sensitive.

Item	Default	Description
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your Wireless Subscriber Gateway to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your Wireless Subscriber Gateway to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

- **PPTP Client (Point-to-Point Tunneling Protocol)**

If “PPTP” is selected, then this screen will appear. Fill out all the information provided by your ISP.

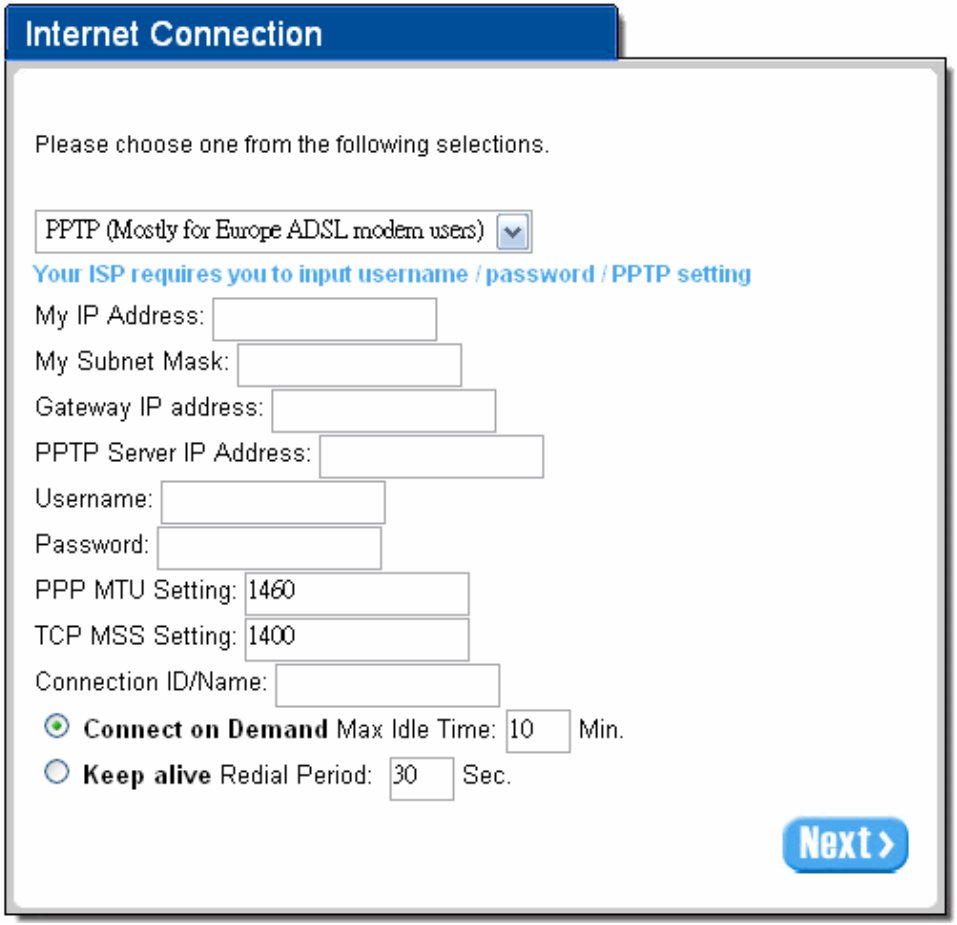

Internet Connection
Please choose one from the following selections.
PPTP (Mostly for Europe ADSL modem users)
Your ISP requires you to input username / password / PPTP setting
My IP Address:
My Subnet Mask:
Gateway IP address:
PPTP Server IP Address:
Username:
Password:
PPP MTU Setting: 1460
TCP MSS Setting: 1400
Connection ID/Name:
Connect on Demand Max Idle Time: 10 Min.
Keep alive Redial Period: 30 Sec.
Next

Figure 16 Internet Connection Setting Screen—PPTP Client Setting

Item	Default	Description
My IP Address	Empty	Enter the PPTP local IP address provided by your ISP.
My Subnet Mask	Empty	Enter the PPTP local Subnet Mask IP address for the IP address (My IP Address).

Item	Default	Description
Gateway IP Address	Empty	Enter the PPTP server Gateway IP address provided by your ISP.
PPTP Server IP Address	Empty	Enter the PPTP server IP address provided by your ISP.
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1460	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1400	MSS (Maximum Segment Size) specifies maximum segment size.
Connection ID/Name	Empty	Enter the connection ID or connection name. The connection ID/Name can consist of up to 81 alphanumeric characters and is case sensitive.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your Wireless Subscriber Gateway to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your Wireless Subscriber Gateway to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPTP enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.

Step 4: Wireless Setting

This page allows you to define ESSID, Channel ID and WEP/WPA encryption for wireless connection.

Figure 17 Wireless Setting Screen

Item	Default	Description
Wireless Connection	Enable	Enable or Disable Wireless connection
ESSID	Wireless	The ESSID is the unique name that is shared among all points in a wireless network. It is case sensitive and must not exceed 32 characters.
Channel	6	Enter the channel ID for wireless connection.

Step 5: E-mail Server Setting

Wireless Subscriber Gateway allows an extra Email server parameter to forward the subscriber's E-mail.

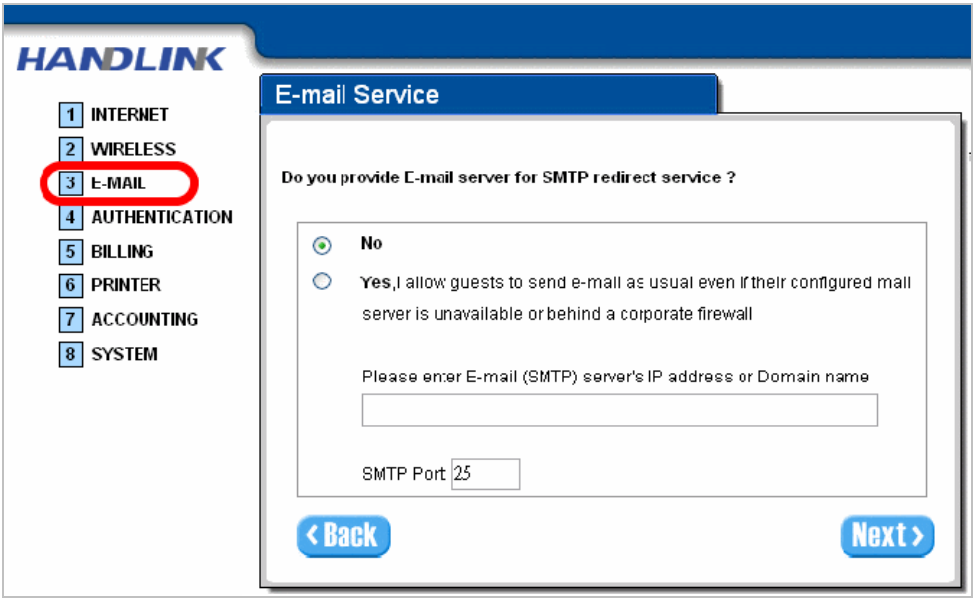


Figure 18 E-mail Service Setting Screen

Item	Default	Description
Email Server Redirect	No	Disables or enables email server redirect function. To prevent some subscriber's original Email server may protect by firewall or NAT network. Wireless Subscriber Gateway provides an extra Email server parameter to forward the subscriber's Email. The Wireless Subscriber Gateway not only forwards the subscribers' E-mail via other E-mail server but also changes the SMTP header. The recipient of your E-mail sees the message as if you sent it from your local Internet Service Provide, not form the hotel or other place.
Email Server's IP address or Domain name	Empty	Before setting this field, please make sure the E-mail sever relay function is opened. Enter the email server IP address or domain name. The field must not exceed 50 characters.
SMTP Port	25	Enter the SMTP port. The SMTP port allowed range is 25 or 2500 to 2599.

Step 6: Authentication Service Setting

Figure 19 Authentication Service Setting Screen

Item	Default	Description
Built-in Authentication/ No Authentication	No No Authentication)	**Yes—** Wireless Subscriber Gateway provides Built-in Authentication for service provider to build up an Internet service without any extra authentication software. If **Yes** is selected, service provider can generate the subscriber account inside Wireless Subscriber Gateway, and the system will authenticate the subscriber login according to the generated account. **No—** Subscriber can direct access the Internet without enter username and password.

Step 7: Billing Profile Setting

The function is used to setup a billing profile. A billing profile is a description of how you want to charge your customer.

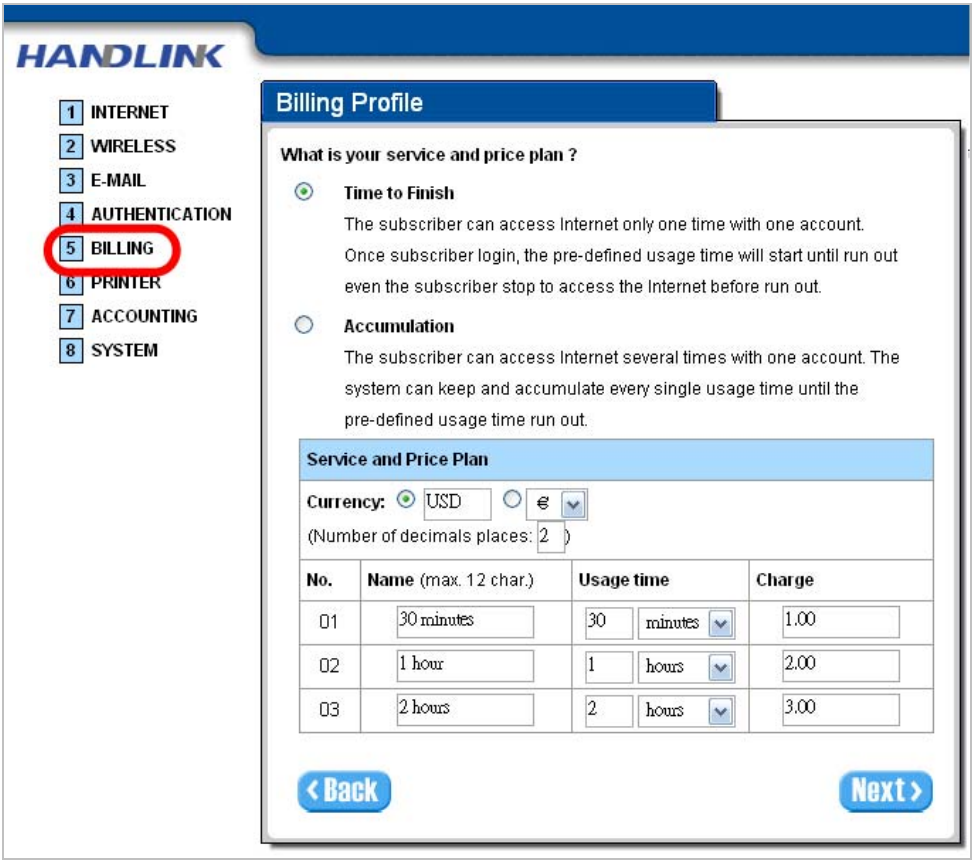

HANDLINK
1 INTERNET
2 WIRELESS
3 E-MAIL
4 AUTHENTICATION
5 BILLING
6 PRINTER
7 ACCOUNTING
8 SYSTEM
Billing Profile
What is your service and price plan ?
Time to Finish
The subscriber can access Internet only one time with one account.
Once subscriber login, the pre-defined usage time will start until run out
even the subscriber stop to access the Internet before run out.
Accumulation
The subscriber can access Internet several times with one account. The
system can keep and accumulate every single usage time until the
pre-defined usage time run out.
Service and Price Plan
Currency: USD €
(Number of decimals places: 2)
No. Name (max. 12 char.) Usage time Charge
01 30 minutes 30 minutes 1.00
02 1 hour 1 hours 2.00
03 2 hours 2 hours 3.00
Back
Next

Figure 20 Billing Profile Setting Screen

Item	Default	Description
Service	Time to Finish	Options: **Time to Finish** or **Accumulation**. **Time to Finish—** The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out. **Accumulation—** The subscriber can access Internet many times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.

Item	Default	Description
Currency	$	Enter the appropriate currency unit or currency symbol.
Number of decimals places	2	Enter the billing decimal value. The field maximum value is 3.
No	01~03	The index number of billing profile. In Wizard setup, we provide only 3 billing profile.
Name	30 minutes/ 1 hour/ 2 hours	It is the name of billing profile. The maximum allowed characters length is 12.
Usage Time	30 minutes/ 1 hour/ 2 hours	The duration of the billing period. When this period expires, user account will be discontinued.
Charge	1.00/2.00/3.00	Enter the amount of Internet service. The amount maximum value is 999999.

Step 8 Account Generator Printer Setting

There are two different choices, one is exclusive printer (Account Generator Printer), and the other is non-exclusive printer. Exclusive printer is a portable thermal printer that is integrated with Wireless Subscriber Gateway to press one button to generate accounts and receipt immediately without PC operating. Non-exclusive printer can use the PC Web-based browser to print out user account.

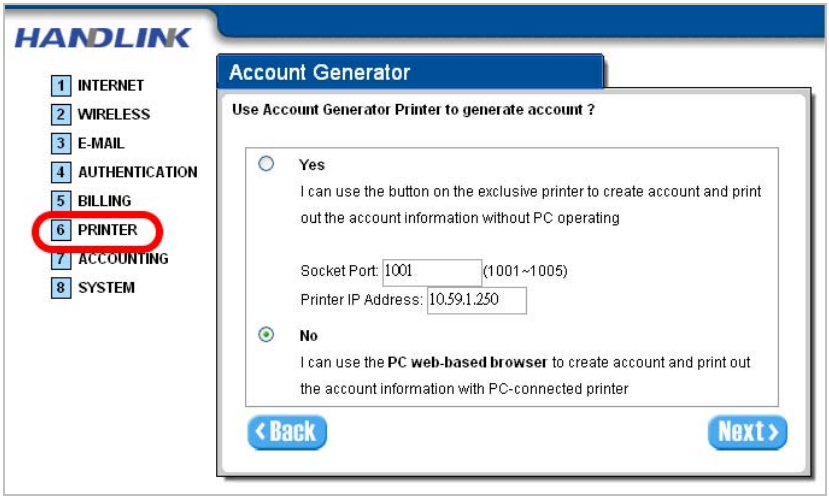

HANDLINK
1 INTERNET
2 WIRELESS
3 E-MAIL
4 AUTHENTICATION
5 BILLING
6 PRINTER
7 ACCOUNTING
8 SYSTEM
Account Generator
Use Account Generator Printer to generate account ?
Yes
I can use the button on the exclusive printer to create account and print out the account information without PC operating
Socket Port: 1001 (1001~1005)
Printer IP Address: 10.59.1.250
No
I can use the PC web-based browser to create account and print out the account information with PC-connected printer
Back
Next

Figure 21 Printer Setting Screen

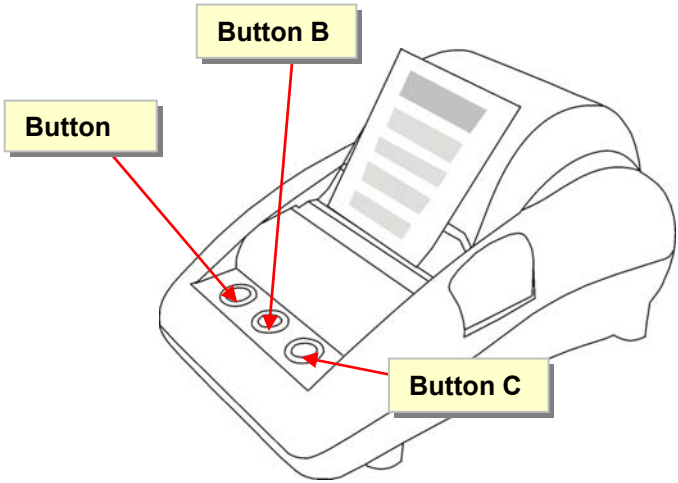


Figure 22 Account Generator Printer

Step 9: Accounting Setting

- **Three-buttons Printer Setting**

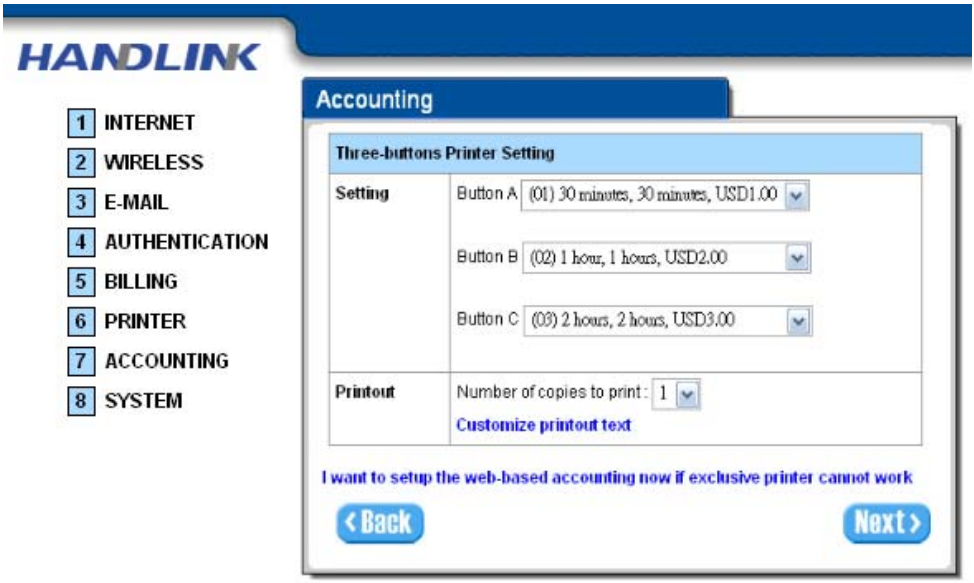


Figure 23 Accounting Setting Screen (Three Button Printer)

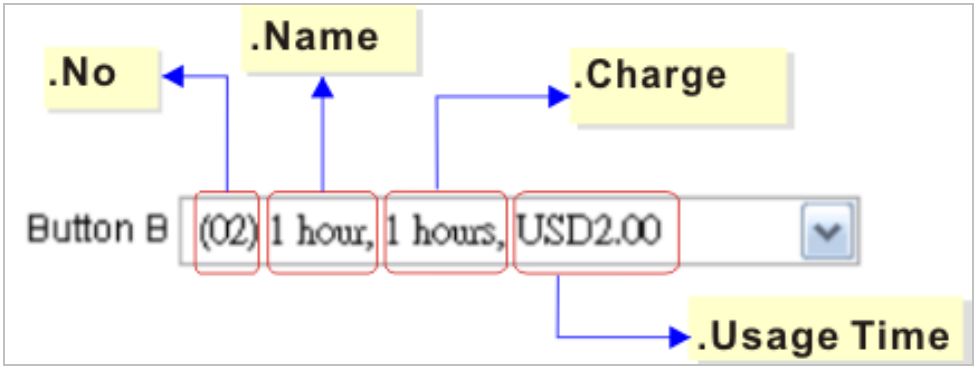


Figure 24 Billing Profile Setting Screen

Item	Default	Description
Button A~ C	01	Define each button's billing profile. Select one billing profile by clicking in the list box.
Printout		
Number of copies to print	1	The system allows you to print all your bills. This value is number of copies.
Customize printout text	This function allows you to produce custom bill based on your requirements.	
I want to setup the web-based accounting now if exclusive printer cannot work		
Click "I want to setup the web-based accounting now if exclusive printer cannot work" to open the "Web-based Account Generator Setting" screen to start the web-based accounting function.		

- **Web-based Account Generator Setting**

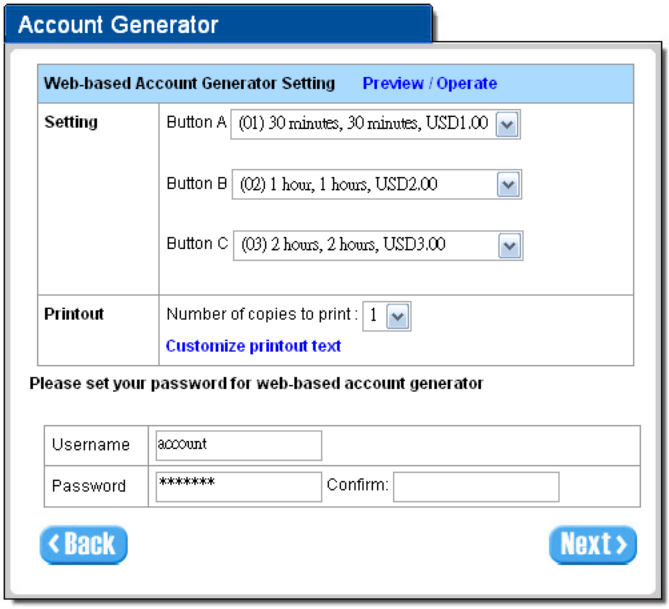


Figure 25 Web-based Account Generator Setting Screen

Item	Default	Description
Billing Profile (Button A~C)	Define each button's billing profile. Select one billing profile by clicking in the list box.	
Printout		
Number of copies to print	1	The system allows you to print all your bills. Select one number of copies by clicking in the list box.
Customize printout text	-	This function allows you to produce custom bill based on your requirements.
Web-based Account		
Username	account	Enter the user name for web-based account generator. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Item	**Default**	**Description**
Password	account	Enter the password for web-based account generator. The password can consist of up to 80 alphanumeric characters and is case sensitive.
Confirm	Empty	Enter the password for confirmation.

Preview / Operate *Click on button to preview and operate account generator panel.*

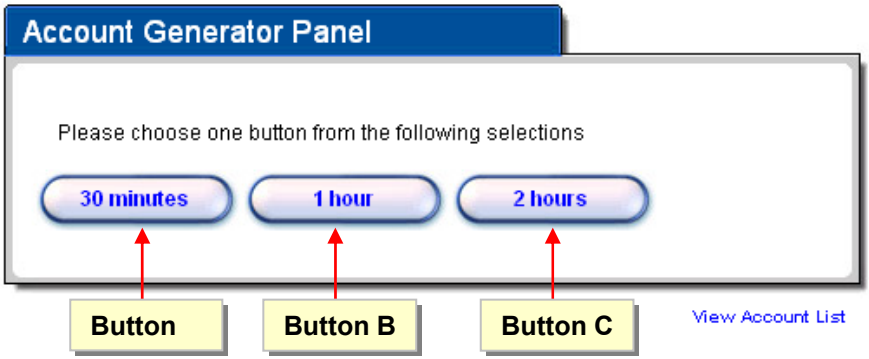


Figure 26 Account Generator Panel

Click on button to create a new account.

View Account List

Click “View Account List” to display current account information.

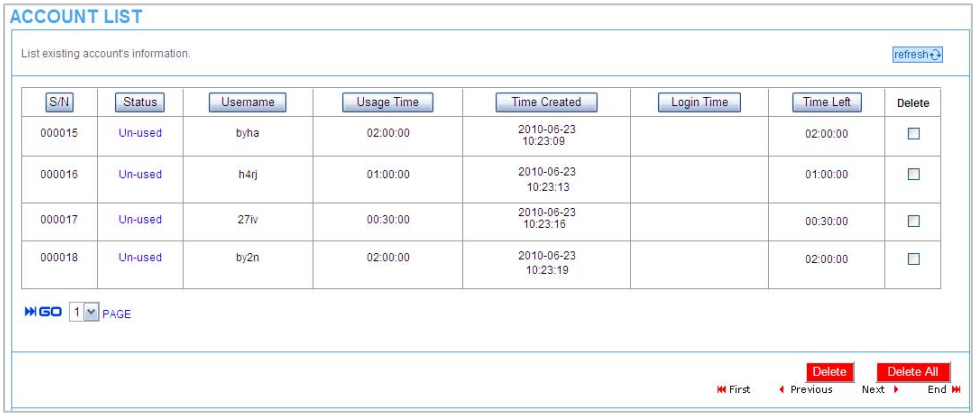


Figure 27 Account List

Click on refresh button to update the account list page

The field name button in this list show that this list can be sorted in ascending/descending order according to the corresponding field name.

*Select the check boxes and click ‘**Delete**’ to delete accounts.*

Delete all accounts in account list.

***Note:** This page will refresh automatically every 5 minutes.*

Customize Printout Text

This function allows you to produce custom bill based on your requirements.

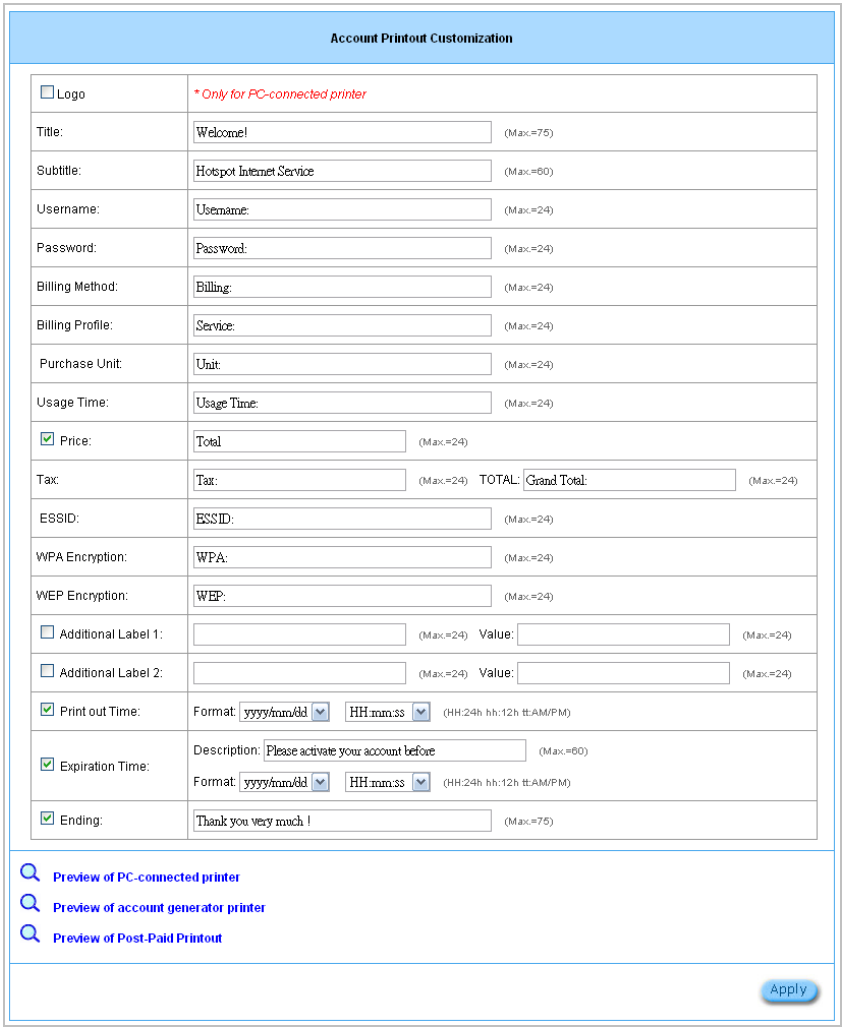
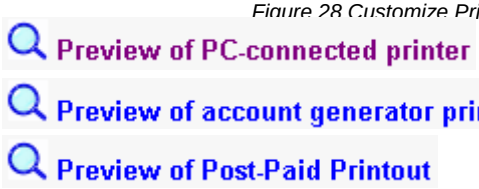


Figure 28 Customize Printout Text Setting Screen



Click the button to displays the account on the screen as it would appear when printed.

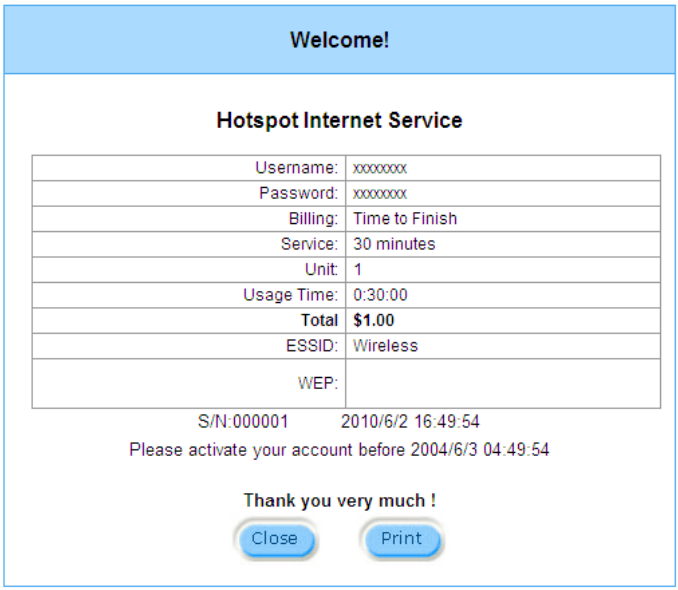


Figure 29 Example- PC-connected printer Printout (Time to Finish)

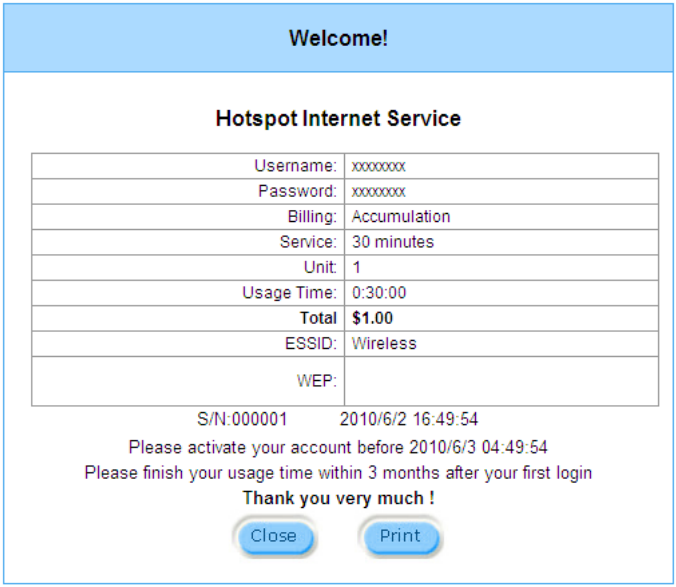


Figure 30 Example- PC-connected printer Printout (Accumulation)

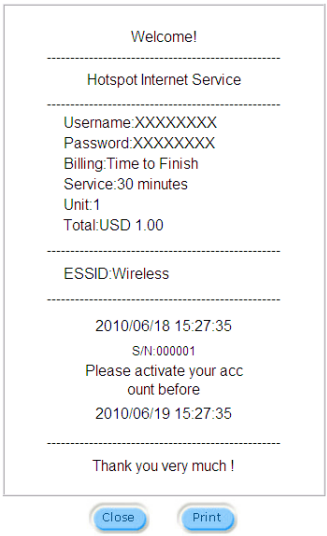


Figure 31 Example- Account Generator Printer Printout (Time to Finish)

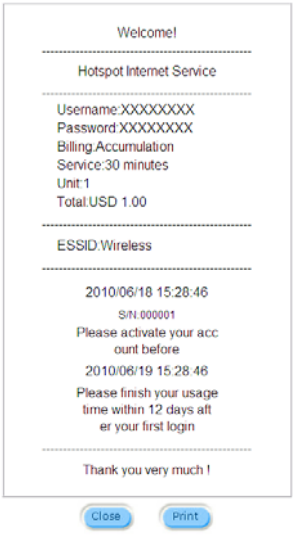


Figure 32 Example- Account Generator Printer Printout (Accumulation)

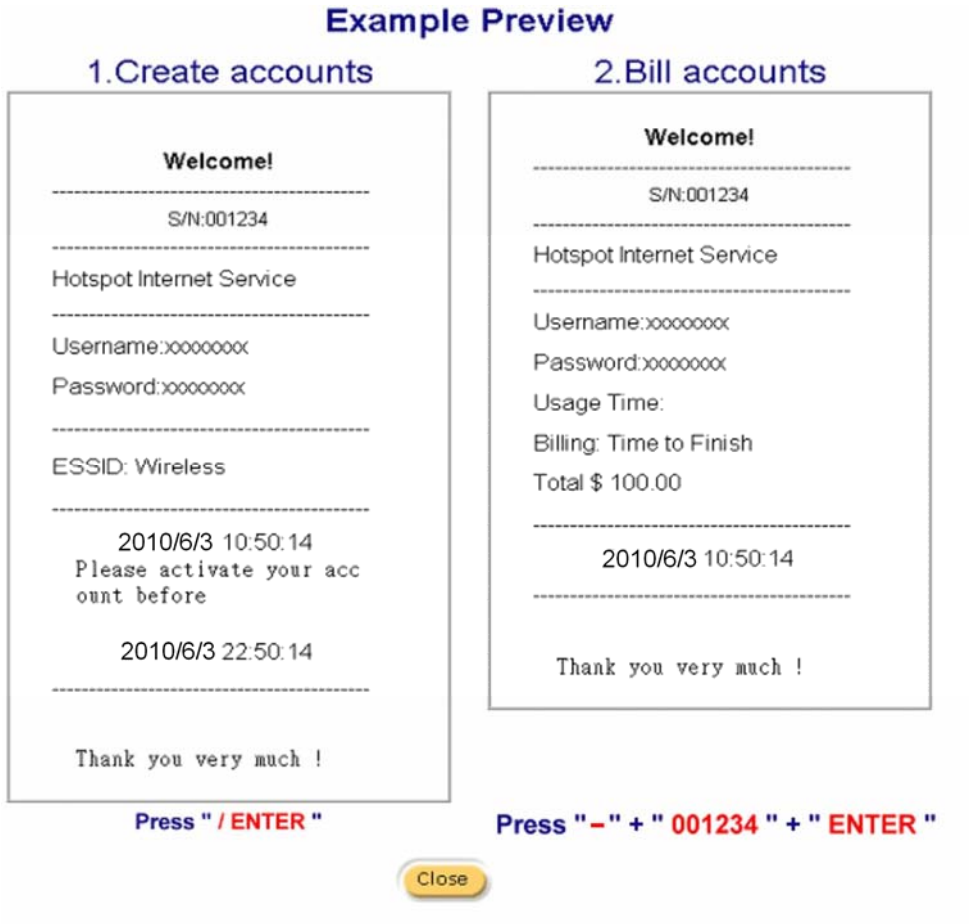


Figure 33 Example-Post-paid Printout

Step 10: System Setting

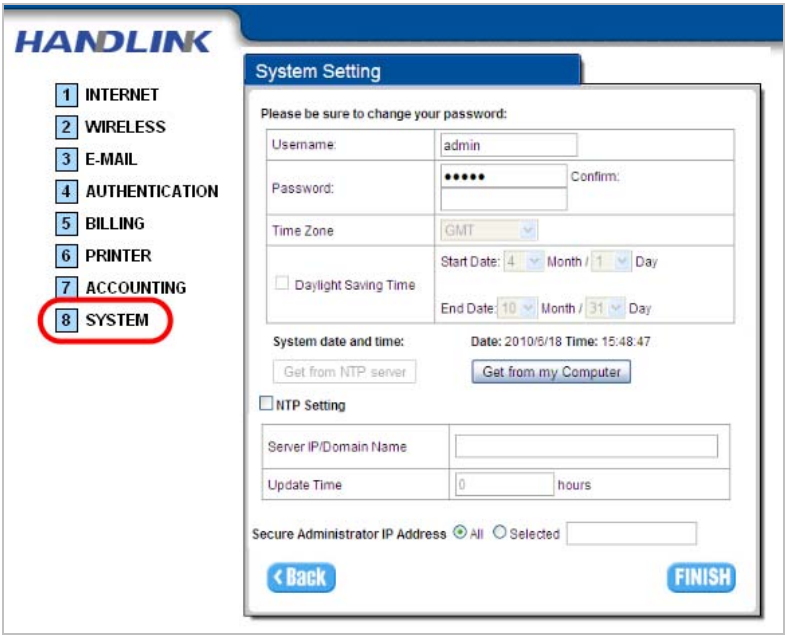


Figure 34 System Setting Screen

Item	Default	Description
Username	admin	Enter the user name. The user name can consist of up to 80alphanumeric characters and is case sensitive.
Password	admin	Enter the user password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
Confirm	Empty	Enter the password of administrator for confirmation.
System date and time	YYYY/MM/DD HH:MM:SS	Get from my Computer Click **Get from my Computer** button to correct the system date and time.
Secure Administrator IP Address	All	This function allows remote user to management the device. You can specify one or any IP addresses for remote control the system.

FINISH *Click the button to save the settings then the system will restart.*

3-2 Advanced Setup

The Advanced Setting enables you to configure advanced settings related to accessing the Internet, including,

1. AUTHENTICATION
   - ☐ AUTHENTICATION
   - ☐ RADIUS
2. BILLING
   - ☐ BILLING
   - ☐ ACCOUNTING
   - ☐ CREADIT CARD
3. MANAGEMENT
   - ☐ LAN DEVICES
   - ☐ SYSLOG
   - ☐ SESSION TRACE
   - ☐ BANDWIDTH
   - ☐ SNMP
4. SECURITY
   - ☐ PASS THROUGHT
   - ☐ FILTERING
   - ☐ SHARE
   - ☐ SECURE REMOTE
5. SYSTEM
   - ☐ SYSTEM
   - ☐ WAN/LAN
   - ☐ SERVER
   - ☐ KEYPAD
   - ☐ CUSTOMIZATION
   - ☐ PORTAL PAGE
   - ☐ ADVERTISEMENT
   - ☐ WALLED GARDEN
   - ☐ DDNS
   - ☐ WIRELESS
   - ☐ ACCOUNT GENERATOR

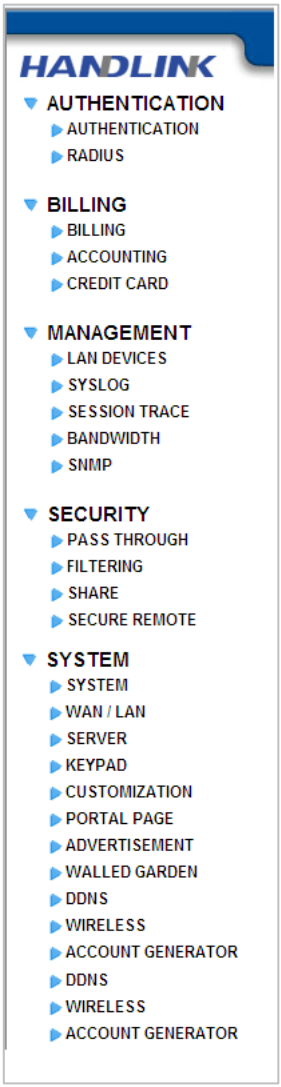


Figure 35 Advanced Setting Item Screen

***Note:** After change the settings of device, please click **apply** button to save the new settings.*

3-2-1 AUTHENTICATION

3-2-2-1 Authentication

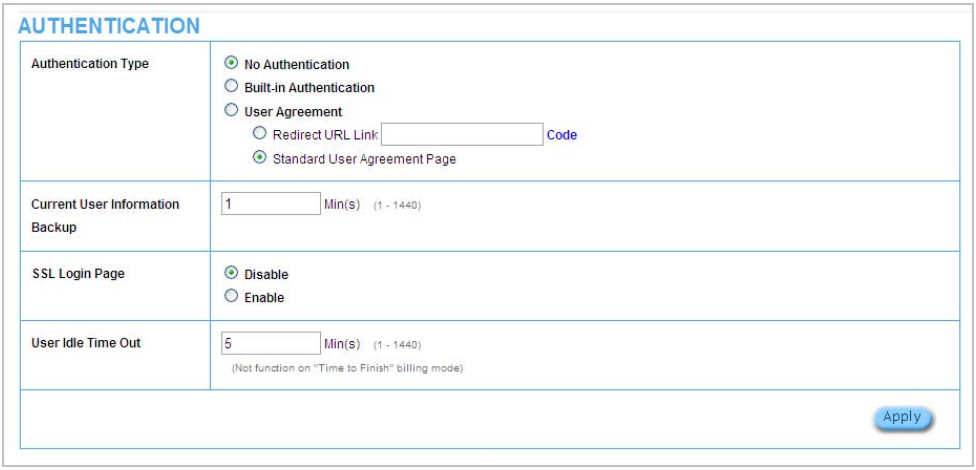


Figure 36 Authentication Setting Screen

Item	Default	Description
Authentication Type	No Authentication	Option: No Authentication, Built-in Authentication or User Agreement. **No Authentication—** Subscriber can direct access the Internet without enter username and password. **Built-in Authentication—** Wireless Subscriber Gateway provides "Built-in Authentication" for service provider to build up an Internet service without any extra authentication software. If "Built-in Authentication" is selected, service provider can generate the subscriber account inside Wireless Subscriber Gateway, and the system will authenticate the subscriber login according to the generated account. **User Agreement—** Subscriber must accept the service usage agreement before they can access the Internet.

Item	Default	Description
Current User Information Backup	1 Min(s)	The system provides automatically backup account information and unused account to flash ROM. This function allow administrator to adjust the backup time. The default value is 1 minute. The Current User Information Backup valid range is 1 to 1440.
Redirect Login Page URL	Empty	The input format can be http://www.yahoo.com. The maximum character of the URL Link is 200.
Code Code	Copy and paste the following HTML Code into your home page to produce redirect subscriber login page.	

Copy and paste the following HTML Code into your home page to produce user agreement login page.

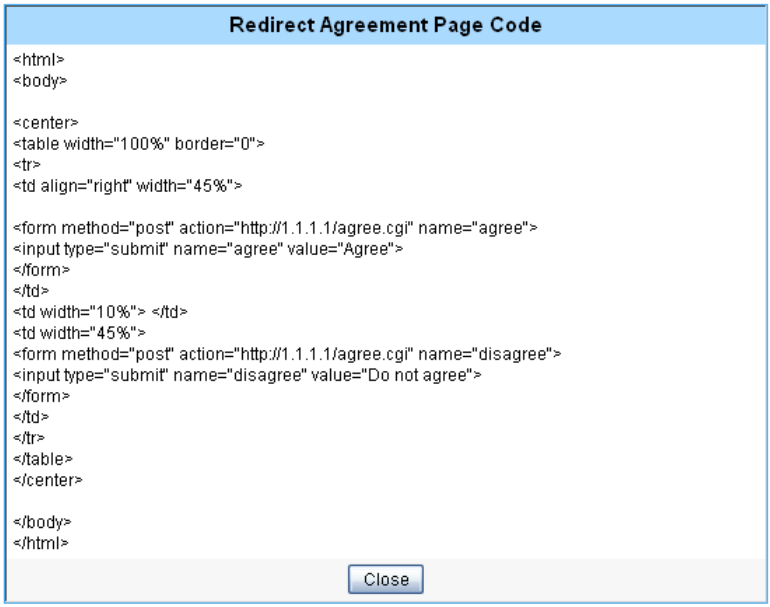


Figure 37 Preview Redirect Login Page Code

Item	Default	Description
SSL Login Page	Disable	Enables or disables SSL security of login page.
User Idle Time Out	5 Minutes	The user idle time out valid range is 1-1440.

*Click **Apply** button to save the new settings.*

3-2-2-2 RADIUS

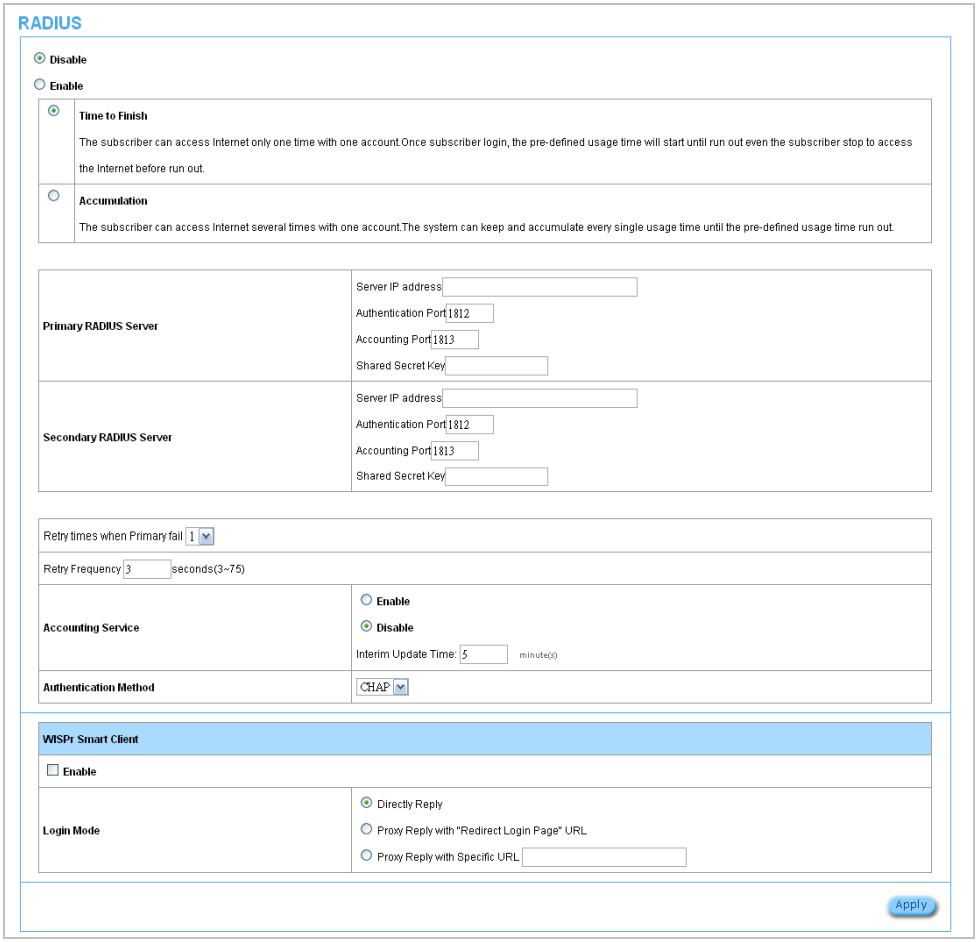

RADIUS
Disable
Enable
Time to Finish
The subscriber can access Internet only one time with one account.Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.
Accumulation
The subscriber can access Internet several times with one account.The system can keep and accumulate every single usage time until the pre-defined usage time run out.
Primary RADIUS Server
Server IP address
Authentication Port 1812
Accounting Port 1813
Shared Secret Key
Secondary RADIUS Server
Server IP address
Authentication Port 1812
Accounting Port 1813
Shared Secret Key
Retry times when Primary fail 1
Retry Frequency 3 seconds(3~75)
Accounting Service
Enable
Disable
Interim Update Time: 5 minute(s)
Authentication Method
CHAP
WISPr Smart Client
Enable
Login Mode
Directly Reply
Proxy Reply with "Redirect Login Page" URL
Proxy Reply with Specific URL
Apply

Figure 38 Authentication Setting Screen

Item	Default	Description
RADIUS Authentication	Disable	Option: No Authentication or RADIUS Server. **Disable (No Authentication) —** Subscriber can direct access the Internet without enter username and password. **Enable (RADIUS Authentication) —** Wireless Subscriber Gateway provides “RADIUS Authentication” for service provider to build up an Internet service with RADIUS server. If RADIUS Authentication is enabled, all subscribers’ authentication will send to RADIUS Server by RADIUS protocol (RFC 2865, 2866).
Time to Finish/ Accumulation	Enable	Service provider provides two different accounting calculate for the Internet service.
Primary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with the Server setting. Up to 64 characters are allowed.
Secondary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with the secondary RADIUS Server setting. Up to 64 characters are allowed.
Retry times when Primary fail	1	Specify the retry times when primary fail.

Item	Default	Description
Retry Frequency ~ Seconds	3	The field default value is 3 seconds.
Accounting Service	Disable	Enables or disables the accounting service.
Interim Update Time	5 Minutes	Specify the interim update time.
Authentication Method	CHAP	Enter the authentication method of RADIUS server.
WISPr Smart Client		
Enable	Disable	Enables or disables WISPr Smart Client roaming function.
Login Mode	Directly Reply	Options: Directly Reply, Proxy Reply with “Redirect Login Page” URL and Proxy Reply with Specific URL. The login mode information for the IPASS GIS connection. (Provided by your ISP).

3-2-2 BILLING

3-2-2-1 Billing

The function is used to setup a billing profile. A billing profile is a description of how you want to charge *your customer.*

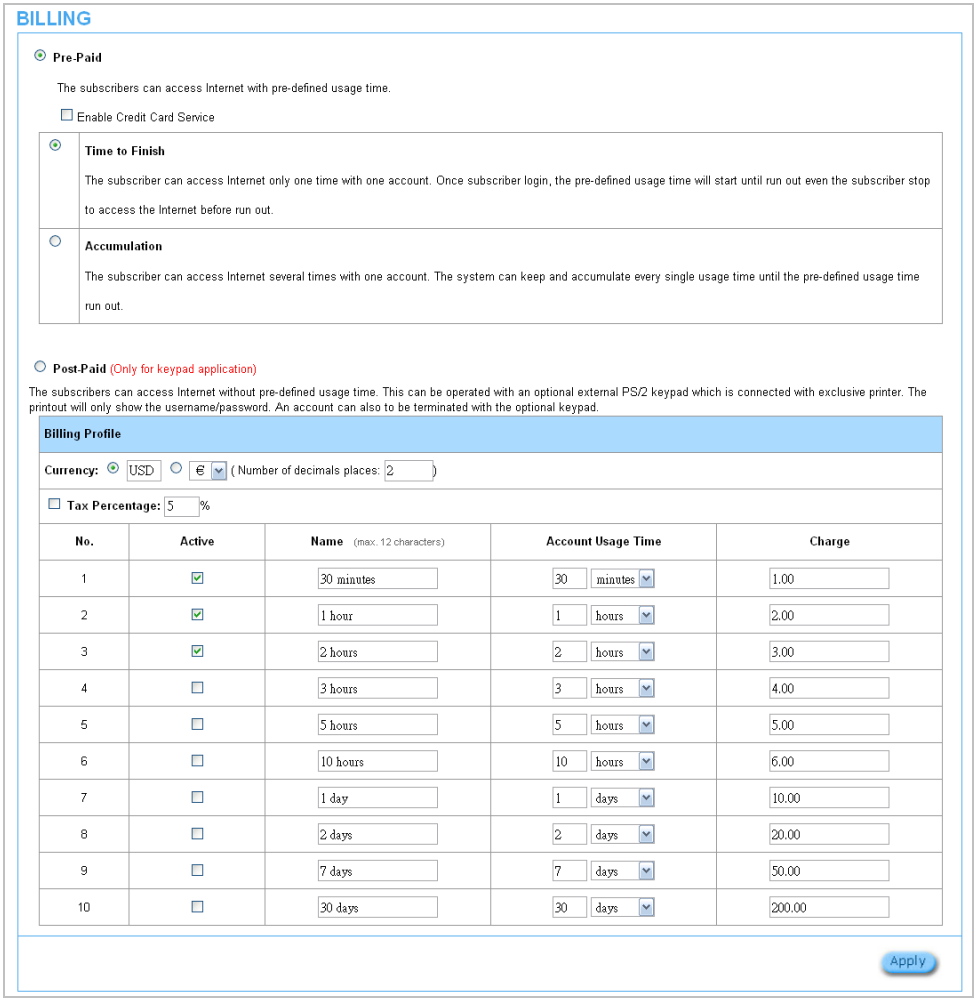

BILLING
Pre-Paid
The subscribers can access Internet with pre-defined usage time.
Enable Credit Card Service
Time to Finish
The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.
Accumulation
The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.
Post-Paid (Only for keypad application)
The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad which is connected with exclusive printer. The printout will only show the username/password. An account can also to be terminated with the optional keypad.
Billing Profile
Currency: USD € (Number of decimals places: 2)
Tax Percentage: 5 %
No. Active Name (max. 12 characters) Account Usage Time Charge
1 30 minutes 30 minutes 1.00
2 1 hour 1 hours 2.00
3 2 hours 2 hours 3.00
4 3 hours 3 hours 4.00
5 5 hours 5 hours 5.00
6 10 hours 10 hours 6.00
7 1 day 1 days 10.00
8 2 days 2 days 20.00
9 7 days 7 days 50.00
10 30 days 30 days 200.00
Apply

Figure 39 Billing Setting Screen

If you change billing mode (Pre-paid→Post-paid or Post-paid→Pre-paid), the system will erase all account and disconnect all on-line users.

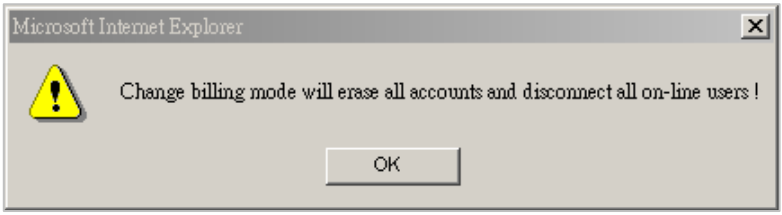


Figure 40 Message Box

Item	Default	Description
Enable Credit Card Service	Disable	Enables or disables the credit card service. Before you enable credit card service, make sure that your credit service is configured to work and the currency is American dollars. You must be converting all prices on your billing page into American dollars (U.S. dollars). For details, see section 3-2-8 Credit Service. The credit card function only supports the American dollars.

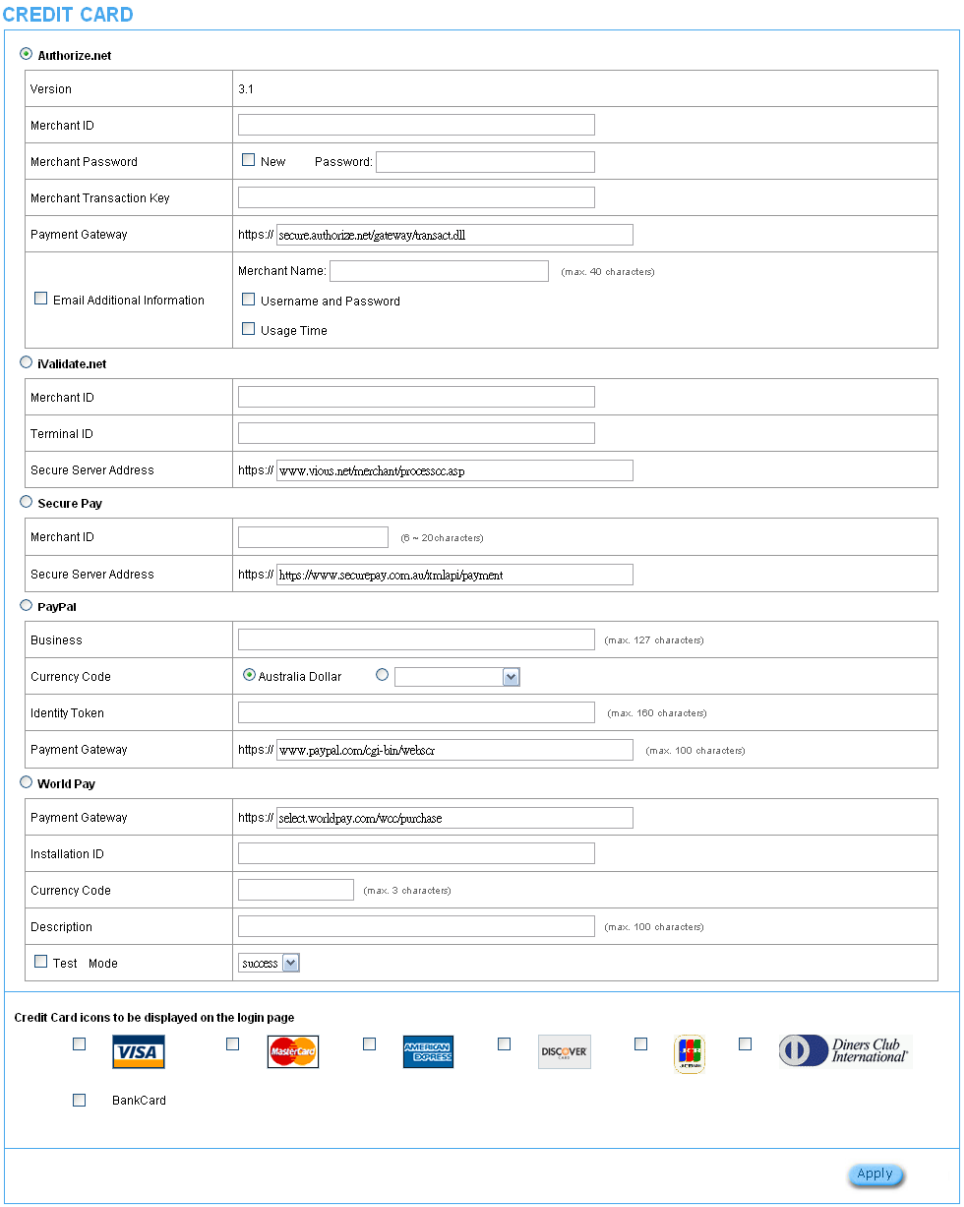


Figure 41 Credit Service Setting Screen

Figure 42 Error Dialog Box (Credit Card Service=Enable)

Item	Default	Description
Time to Finish	Enable	The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.
Accumulation		
Accumulation	Disable	The subscriber can access Internet many times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.
Idle Time Out	5 Min(s)	The idle time out valid range is 1-1440. If the idle time out is set as 5 minutes, it means if the account doesn't send packet in 5 minutes, the account will logout automatically.

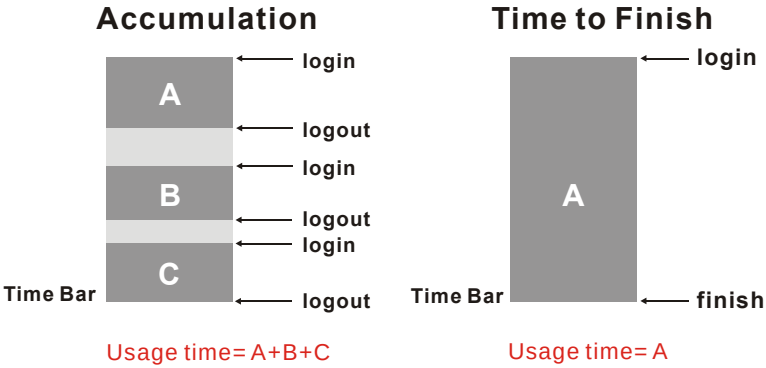


Figure 43 Accumulation and Time to Finish

Item	Default	Description
Post-Paid	Disable	The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad that is connected with exclusive printer. The printout will only show the username/password. An account can also to be terminated with the optional keypad.
Idle Time Out	5 Min(s)	The idle time out valid range is 1-1440. If the idle time out is set as 5 minutes, it means if the account doesn't send packet in 5 minutes, the account will logout automatically.
Billing Profile		
Currency	$	Enter the appropriate currency unit or currency symbol.
Number of decimals places	2	Enter the number. The field maximum value is 3.
Tax Percentage	Disable	This check box is used to indicate the taxable status of the account.
	5%	Enter the tax rate (i.e. a 5% sales tax is entered as 5).
No.	+1~+10	The index number of billing profile. In Advanced setup, we provide 10 billing profile.
Active	-	Click on check box, active or inactive the billing profile.
Name	-	It is the name of billing profile. The maximum allowed characters length is 12.
Account Usage time	-	The duration of the billing period. When this period expires, user account will be discontinued.
Charge	-	Enter the unit rate amount (i.e. 35.00) that most of your accounts are charged for one day of service.

Figure 44 Pre-paid Procedure Diagram

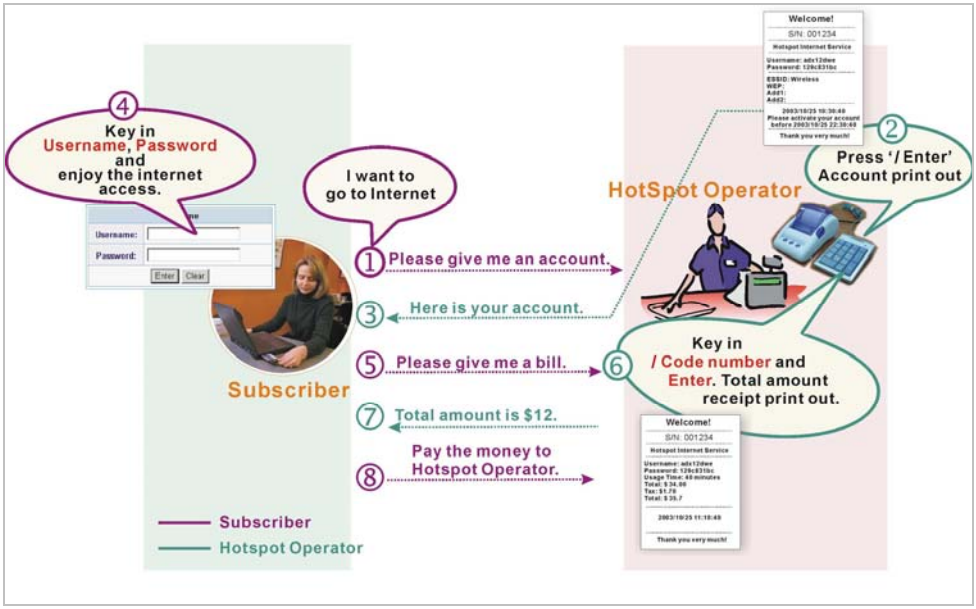


Figure 45 Post-paid Procedure Diagram

Apply

Click Apply button to save the new settings.

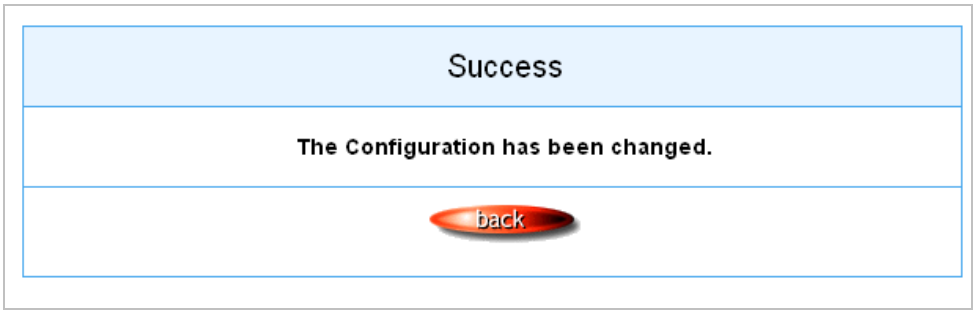


Figure 46 Success Dialog Box

3-2-2-2 Accounting

This function allow service provider to generate the subscriber accounts.

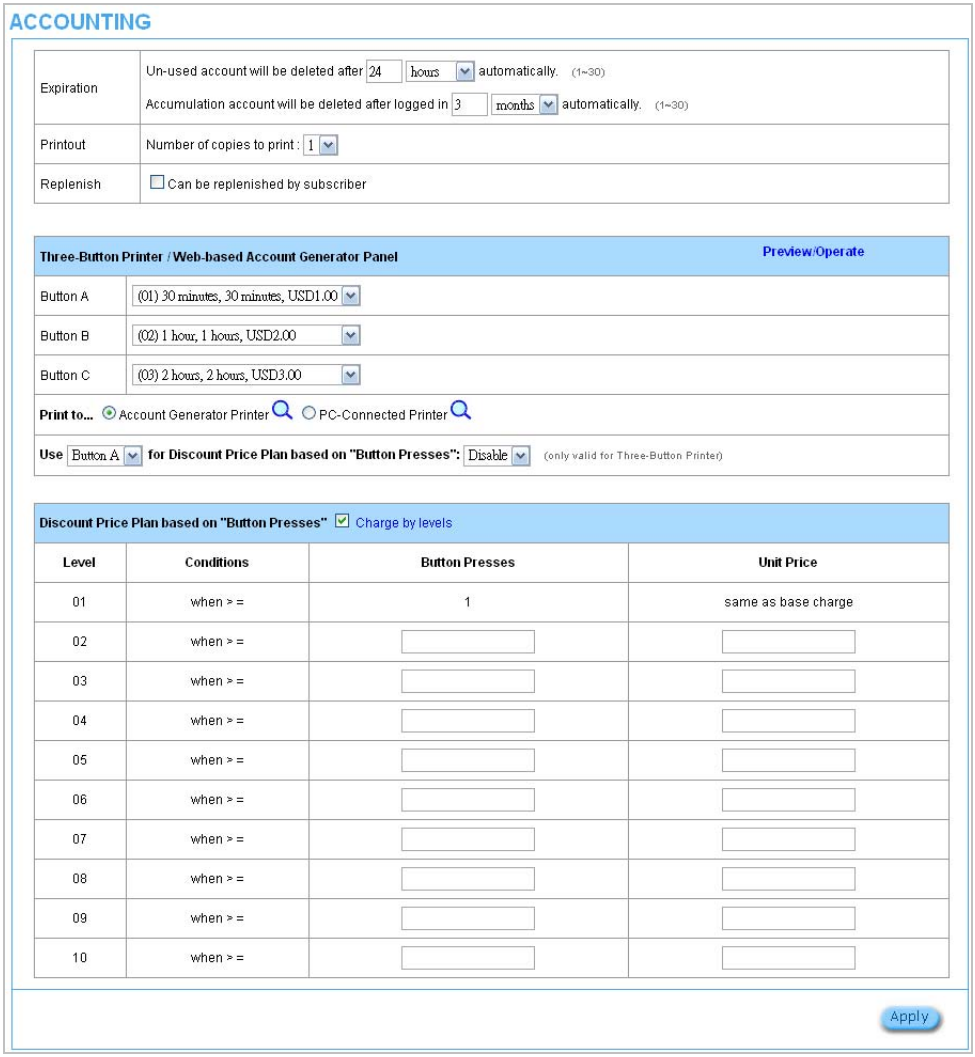

ACCOUNTING
Expiration
Un-used account will be deleted after 24 hours automatically. (1~30)
Accumulation account will be deleted after logged in 3 months automatically. (1~30)
Printout
Number of copies to print : 1
Replenish
Can be replenished by subscriber
Three-Button Printer / Web-based Account Generator Panel
Preview/Operate
Button A
(01) 30 minutes, 30 minutes, USD1.00
Button B
(02) 1 hour, 1 hours, USD2.00
Button C
(03) 2 hours, 2 hours, USD3.00
Print to... Account Generator Printer PC-Connected Printer
Use Button A for Discount Price Plan based on "Button Presses": Disable (only valid for Three-Button Printer)
Discount Price Plan based on "Button Presses" Charge by levels
Level
Conditions
Button Presses
Unit Price
01 when > = 1 same as base charge
02 when > =
03 when > =
04 when > =
05 when > =
06 when > =
07 when > =
08 when > =
09 when > =
10 when > =
Apply

Figure 47 Accounting Setting Screen

Expiration
Un-used account will be deleted after 24 hours automatically. (1~30)
Accumulation account will be deleted after logged in 3 months automatically. (1~30)
Printout
Number of copies to print : 1
Replenish
Can be replenished by subscriber

Figure 48

Item	Default	Description
Expiration		
Un-used account will be deleted after ~hours automatically	24 hours	Enter the number of hours/minutes/days. The field maximum value is 30 hours/minutes/days.
Accumulation account will be deleted after logged in ~	3 months	Enter the number and select time unit from list box. The field maximum value is 30 month/ days/ hours.
Printout		
Number of copies to print	1	The system allows you to print all your bills. Select one number of copies by clicking in the list box.
Can be replenished by subscriber		Click the check box to enable the replenish function.

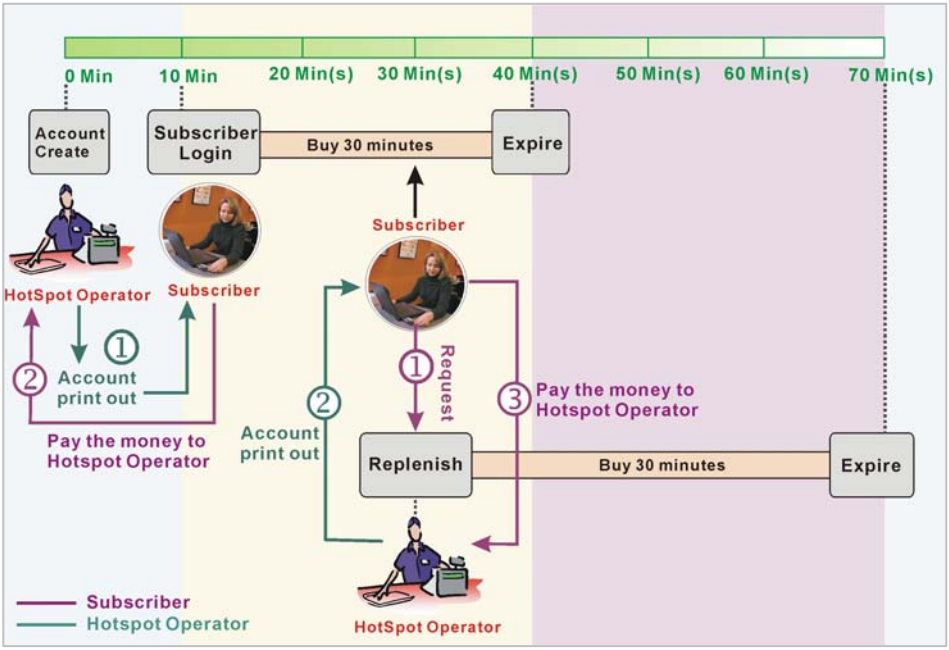


Figure 49 Account Process DiagramCan be replenished by subscriber=Enable

- **Three-Button Printer/ Web-based Account Generator Panel**

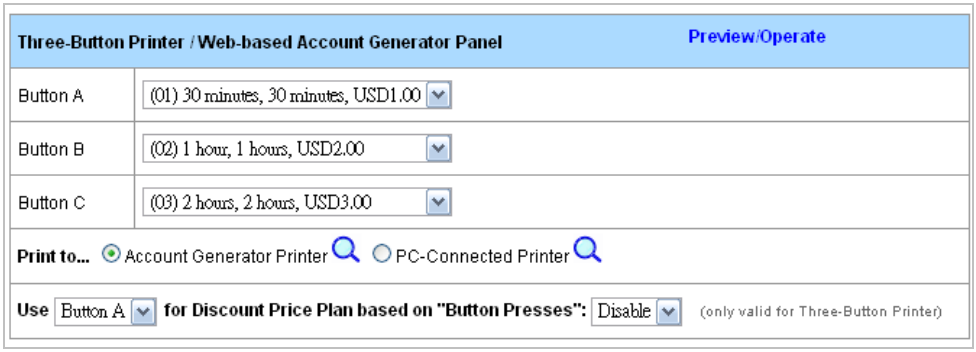


Figure 50 Three-Button Printer/ Web-based Account Generator Panel Setting Screen

Item	Default	Description
Button A~C	-	Define each button's billing profile. Select one billing profile by clicking in the list box.
Print to…	Account Generator Printer	Select a printer to print out your account.

Item	Default	Description
Use ~ for Discount Price Plan based on “Button Presses”	Button A, Disable	Select one button (A~C) by clicking in the list box to assign the base charge and select enable to active the discount price plan.

Preview/Operate *Click on button to preview and operate account generator panel.*

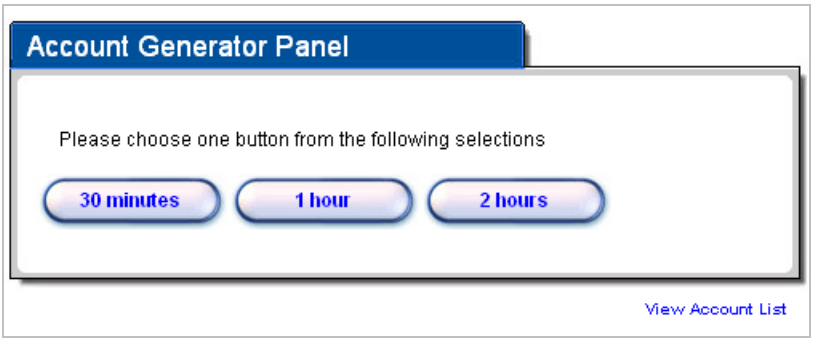


Figure 51 Account Generator Panel

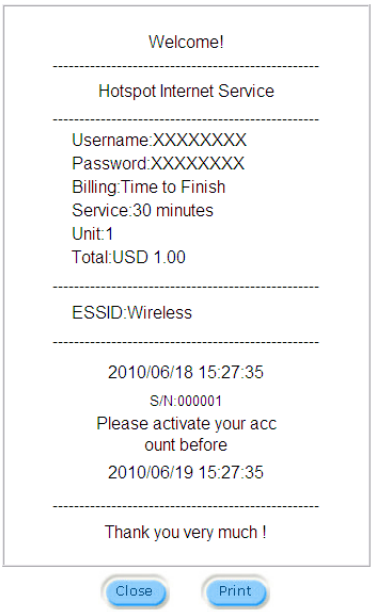


Figure 52 Web-based Account Generator Printout (Time to Finish)

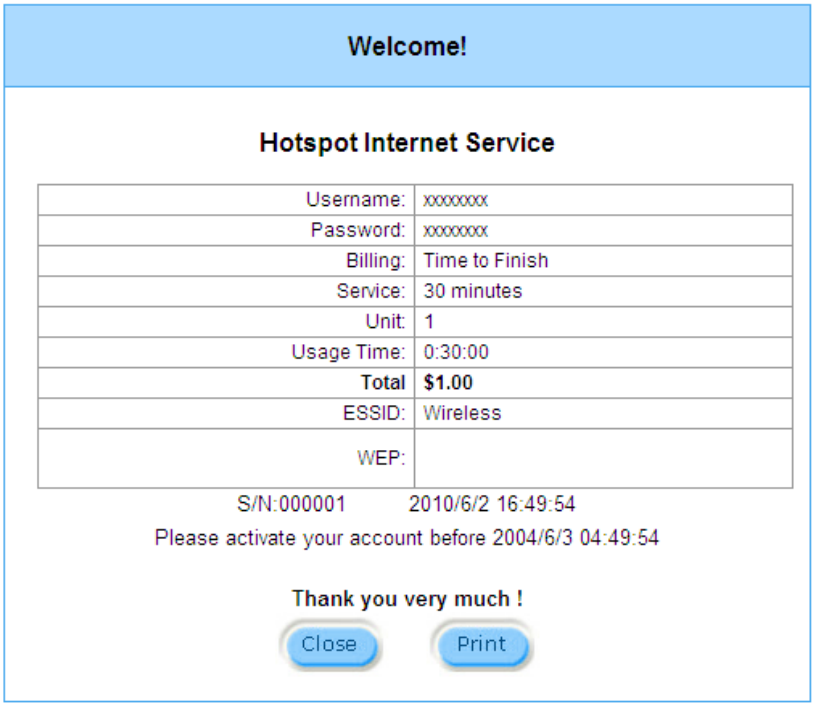


Figure 53 PC-connected Printer Printout (Time to Finish)

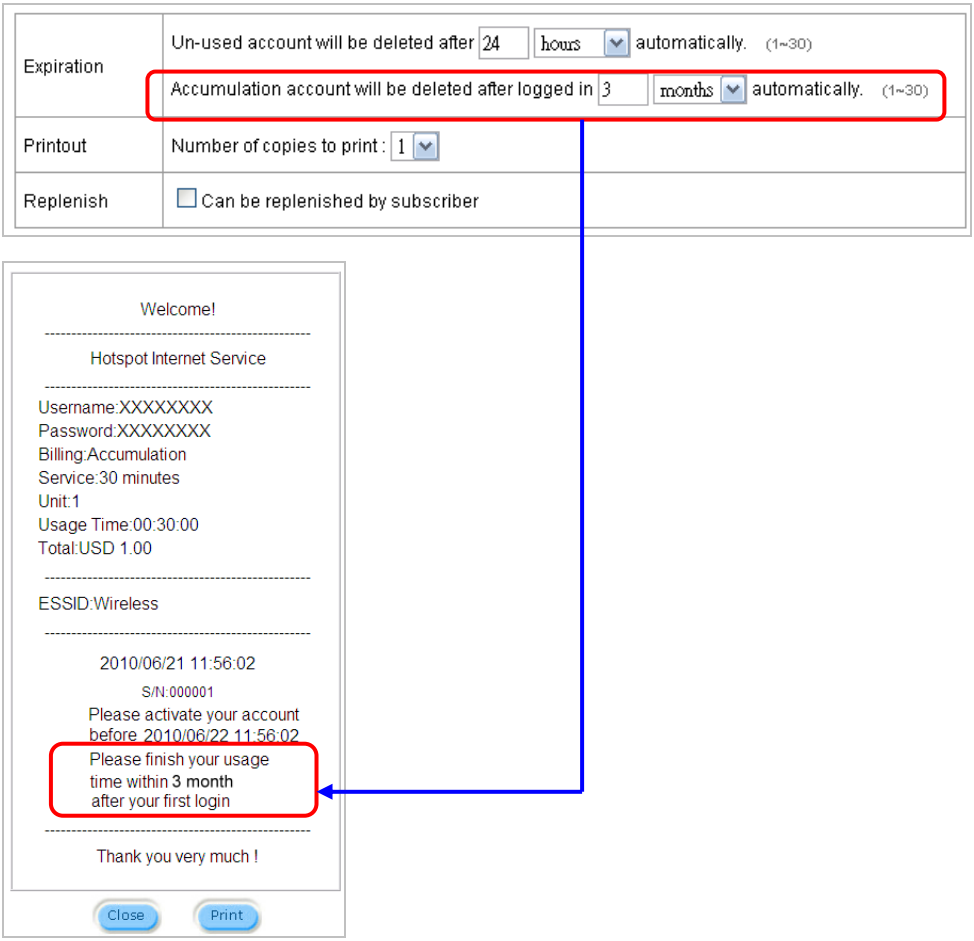


Figure 54 Web-based Account Generator Printout (Accumulation)

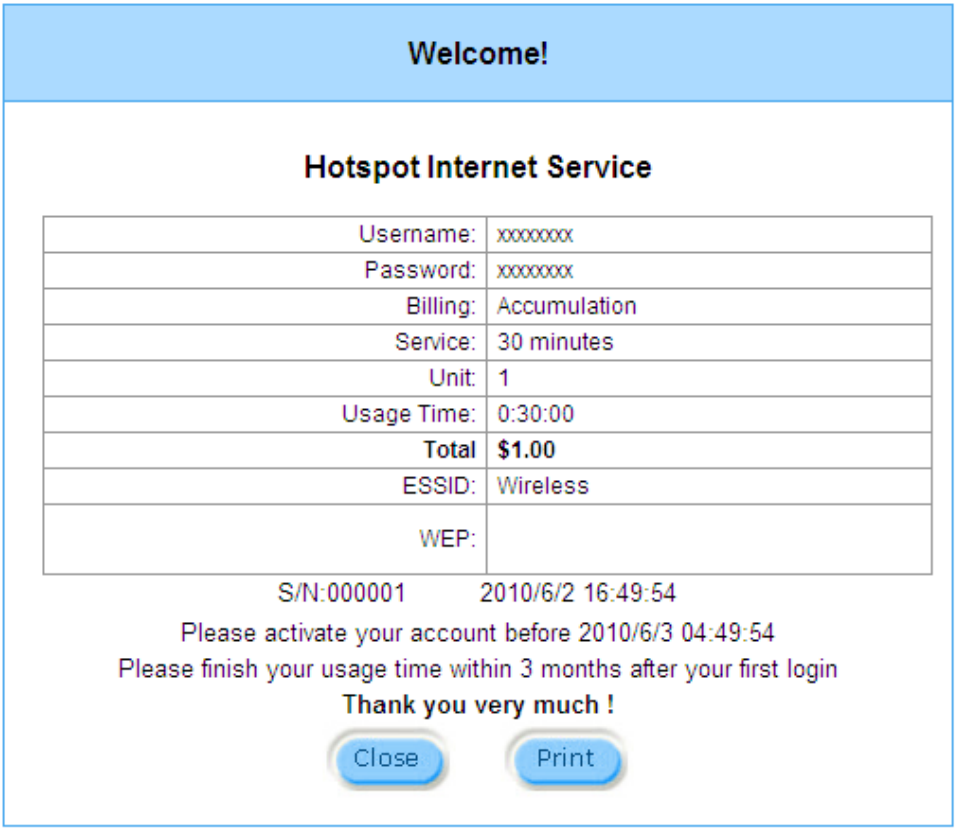


Figure 55 PC-connected Printer Printout (Accumulation)

Note: *Before configuring the accounting, you have to setting the billing profile of Web-based account generator panel.*

Example: If press 7 times

- Discount Price Plan based on “Button Presses” is disabled.

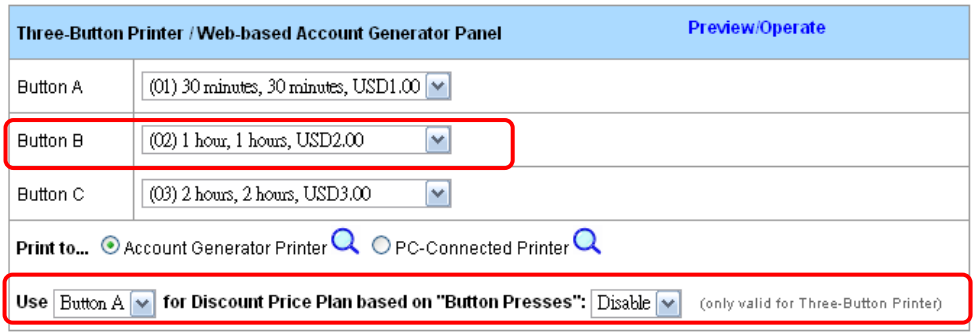


Figure 56 Example 1

Amount: 7 x $2.00= $14.00

Figure 57 Account Printout

- Discount Price Plan based on “Button Presses” is enabled.
- The Charge by level is disabled.

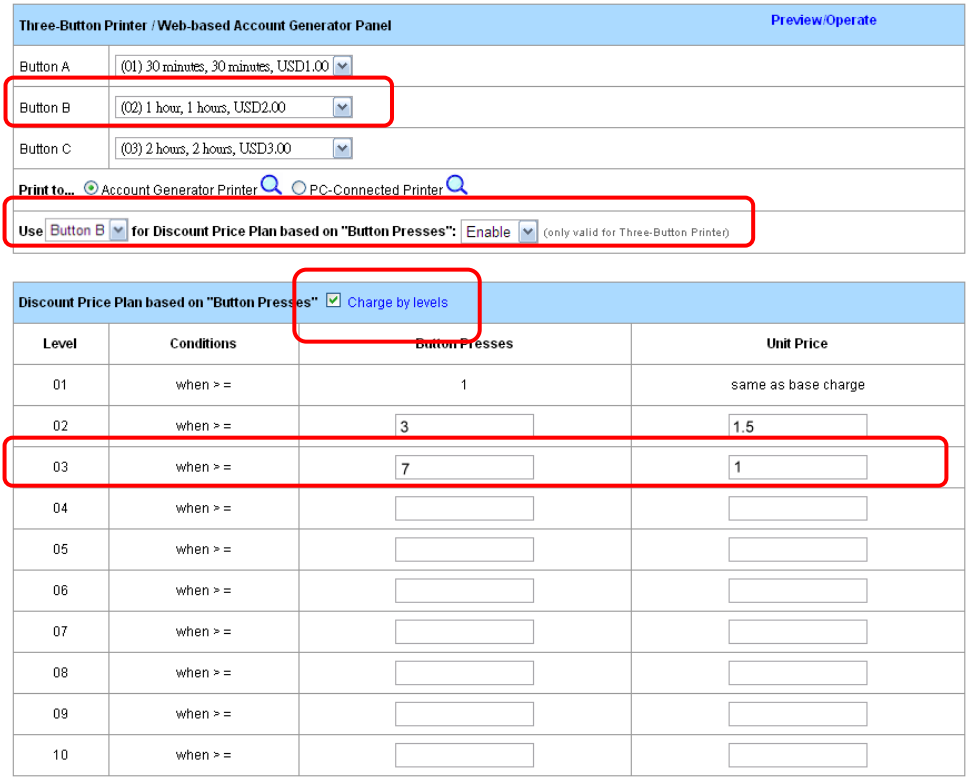

Three-Button Printer / Web-based Account Generator Panel
Preview/Operate
Button A
(01) 30 minutes, 30 minutes, USD1.00
Button B
(02) 1 hour, 1 hours, USD2.00
Button C
(03) 2 hours, 2 hours, USD3.00
Print to...
Account Generator Printer
PC-Connected Printer
Use Button B for Discount Price Plan based on "Button Presses":
Enable
(only valid for Three-Button Printer)
Discount Price Plan based on "Button Presses"
Charge by levels
Level
Conditions
Button Presses
Unit Price
01 when > = 1 same as base charge
02 when > = 3 1.5
03 when > = 7 1
04 when > =
05 when > =
06 when > =
07 when > =
08 when > =
09 when > =
10 when > =

Figure 58 Example 2

Amount: 7 x $ 1 = $ 7.00

Below is an example of the account printout.

Figure 59 Account Printout

- Discount Price Plan based on “Button Presses” is enabled.
- Charge by level is enabled.

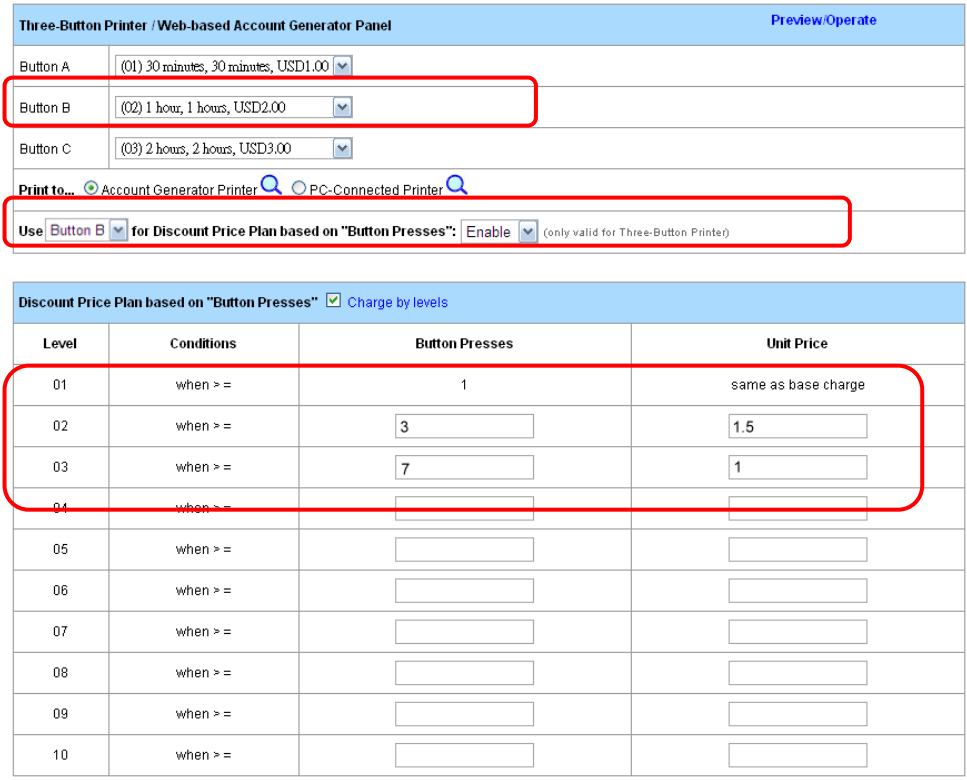

Three-Button Printer / Web-based Account Generator Panel
Preview/Operate
Button A
(01) 30 minutes, 30 minutes, USD1.00
Button B
(02) 1 hour, 1 hours, USD2.00
Button C
(03) 2 hours, 2 hours, USD3.00
Print to...
Account Generator Printer
PC-Connected Printer
Use Button B for Discount Price Plan based on "Button Presses":
Enable
(only valid for Three-Button Printer)
Discount Price Plan based on "Button Presses"
Charge by levels
Level
Conditions
Button Presses
Unit Price
01 when > = 1 same as base charge
02 when > = 3 1.5
03 when > = 7 1
04 when > =
05 when > =
06 when > =
07 when > =
08 when > =
09 when > =
10 when > =

Figure 60 Example 3

Amount: 2 x $2.00 + 4 x$ 1.50+1x$1= $11.00

Below is an example of the account printout.

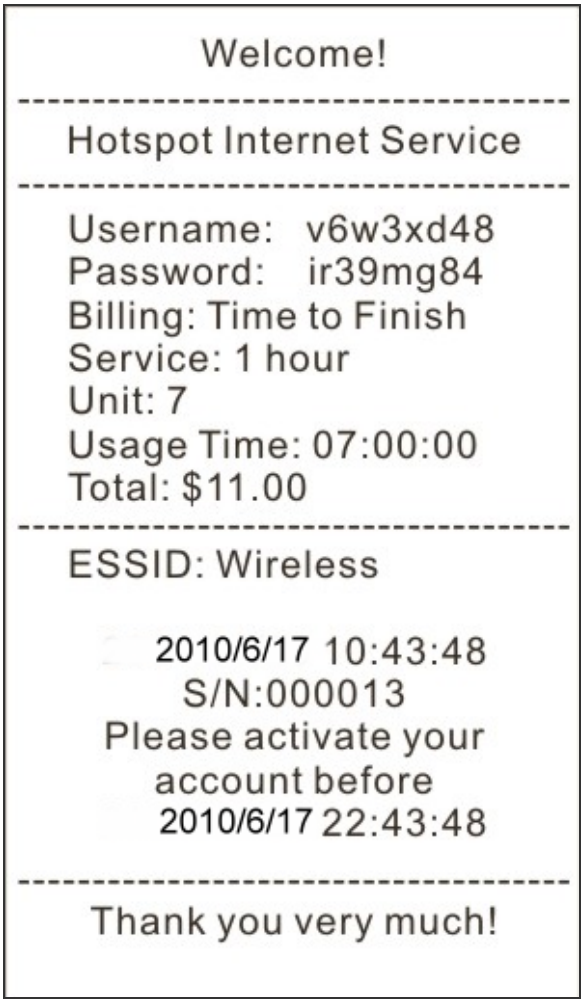


Figure 61 Account Printout

● ***Discount Price Plan based on "Button Presses"***

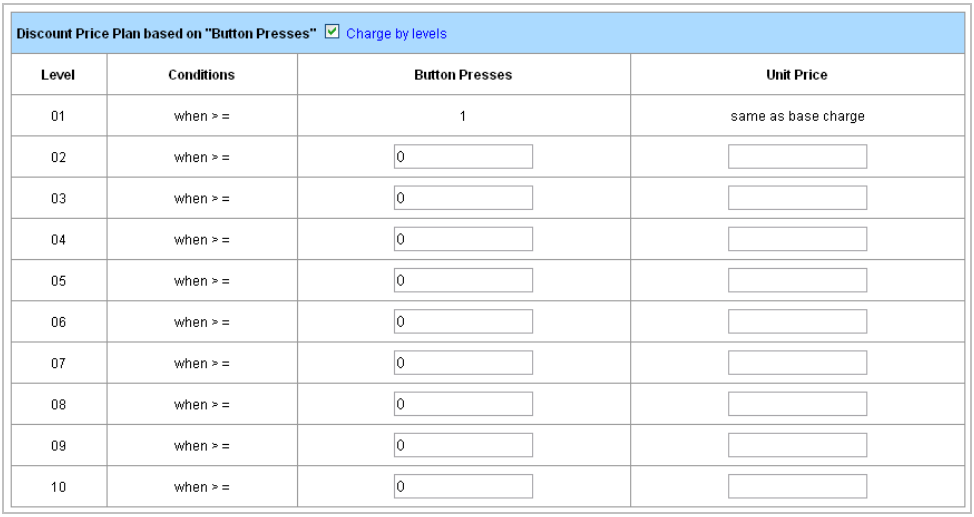

Discount Price Plan based on "Button Presses"
Charge by levels
Level
Conditions
Button Presses
Unit Price
01 when > = 1 same as base charge
02 when > = 0
03 when > = 0
04 when > = 0
05 when > = 0
06 when > = 0
07 when > = 0
08 when > = 0
09 when > = 0
10 when > = 0

Figure 62 Discount Price Plan Setting Screen

Item	Default	Description
Charge by levels	Enable	Enables or disables the charge by levels function.
Level	1~10	This field displays the level number of charge rate.
Conditions	When>=	The discount condition.
Button Presses	-	Enter the times of pressing button.
Unit Price	-	Enter the amount of charge level.

*Click **Apply** button to save the new settings.*

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Accounting setting screen.

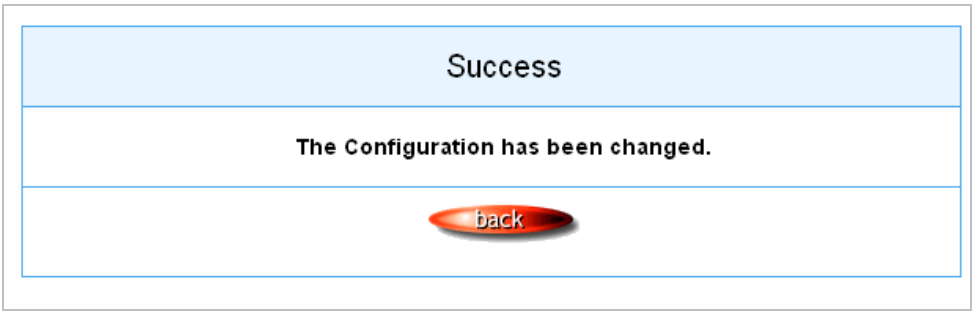


Figure 63 Success Dialog Box

3-2-2-3 Credit Card

Wireless Subscriber Gateway provides three credit card services (**Authorize.net**, **iValidate.net, Secure Pay and Paypal**) that allow service provider to authorize, process, and manage credit transactions directly from Internet.

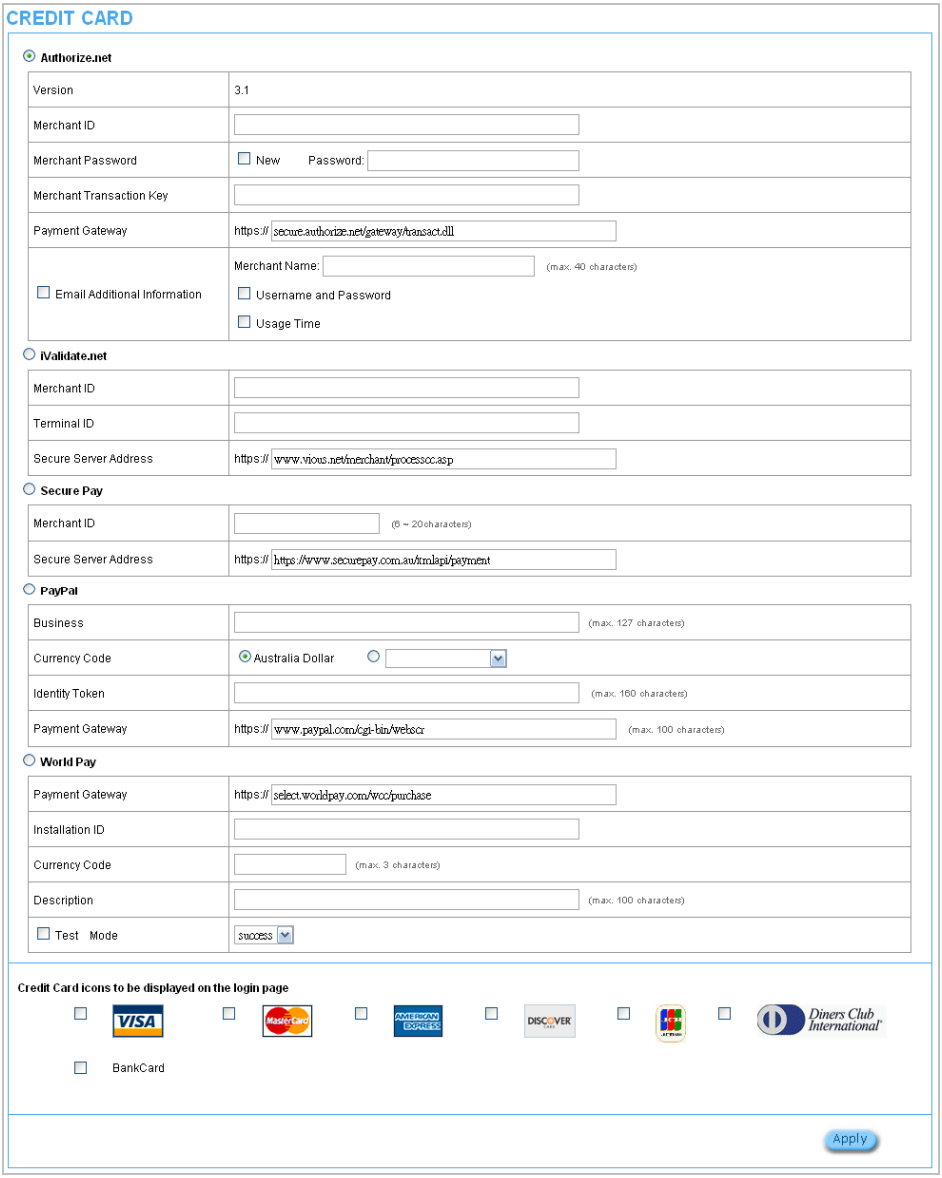


Figure 64 Credit Card Setting Screen

Item	Default	Description
Authorize.net		
Version	3.1	This field displays the merchant version.
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 50.
Merchant Password	This is a Merchant password that you're received from your Merchant Provider.	
Need	Disable	If your Merchant Provider need password to authorize, click the check box to enable this function.
Password	Empty	Enter your Merchant password.
Merchant Transaction Key	Empty	The Merchant Transaction Key can be obtained directly from "Authorize.net". The Merchant Transaction Key is similar to a password and is used by the Payment Gateway to authenticate transactions. The maximum character of the Merchant Transaction Key is 50.
Payment Gateway	https://secure.authorize.net/gateway/transact.dll	Enter the address of Payment Gateway.
Email Additional Information	The Email Additional Information included subscriber username and password would be sent to subscriber.	
Email Additional Information	Disable	Indicates whether Email additional information should be sent to the subscriber (customer).
Merchant Name Enable/Disable	Disable	Indicates whether Merchant Name should be sent to the Email of subscriber.
Merchant Name	Empty	Enter the merchant's company name. The maximum allowed characters length is 40.
Username and Password Enable/Disable	Disable	The Email Additional Information included subscriber username and password would be sent to subscriber.
Usage Time Enable/Disable	Disable	The Email Additional Information included subscriber usage time would be sent to the subscriber.
iValidate.net		
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 20.
Device ID	Empty	Enter your Device ID. This is a Device Identification Number that you're received from your Merchant Provider. The maximum character of the Device ID is 20.

Item	Default	Description
Secure Server Address	https://www.vious.net/merchant/processcc.asp	Enter the secure server address.
Secure Pay		
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 7.
Secure Pay Address	https://www.securepay.com.au/securepay/payments/process2.asp	Enter the address of SecurePay Payment Gateway.
Paypal		
Business	Empty	Enter your Merchant PayPal account. This is a Merchant Identification account that you're register on PayPal. The maximum character of the Business is 127.
Currency Code	U.S. Dollar	To Drop-down the list. It's includes Australia dollar, Canadian Dollar, Euro, Pound Sterling, Japanese Yen , U.S. Dollars, Czech Koruna, Danish Kroner, Hong Kong Dollars, Hungarian Forint, New Zealand Dollars, Norwegian Kroner, Polish Zloty, Singapore Dollars, Swedish Kronor, Swiss Francs,
Identity Token	Empty	Enter the Identities token form merchants profile in the Paypal site. The maximum character of the Identity Token is 160.
Payment Gateway	https://www.paypal/cgi-bin/webscr	Enter the address of Payment Gateway. The maximum character of the payment gateway is 100.
Note：Please leave the Administrator's Email address in Advanced/Syslog/Email portion.		
Credit Card icons to be displayed on the login page	VISA	Click on check box to display credit card icon on the login page.

Item	Default	Description
World Pay	The currently support currencies are as follows: GBP (Pounds Sterling), Japanese Yen, AUD (Australian dollar), CAD (Canadian Dollar), Eur (Euro), New Zealand Dollar, Indian Rupee, Singapore dollar and USD (US Dollar).	
Payment Gateway	Enter the payment gateway address. The default value is "select.worldpay.com/wcc/purchase".	
Installation ID	Empty	The unique reference number, assigned by WorldPay, for a particular Select installation. This is the number you send to WorldPay in your payment form. You will probably have at least two of these; one for the live installation and one for testing.
Currency Code	Empty	Enter the currency code.
Description	Empty	Enter a description of payment page.
Test Mode	Disable, Success	Enables or disables test mode function. Select test mode by clicking in the list box. Success—to make a successful test transaction. Fail—for a failed transaction.

Click Apply button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Accounting setting screen.

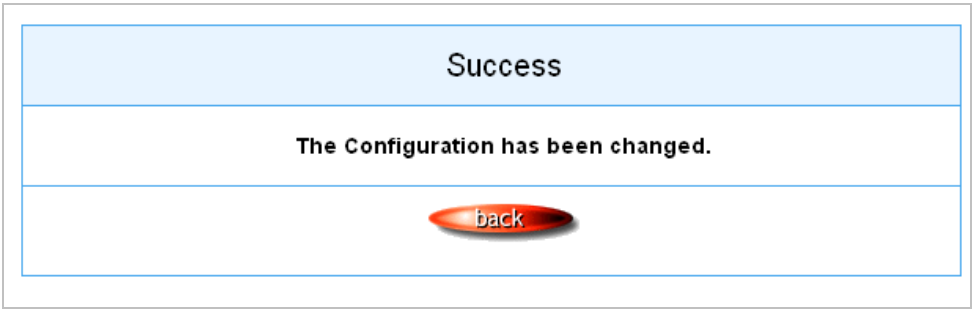


Figure 65 Success Dialog Box

Please follow steps below to pay using credit card.

Step 1: Choose Credit Card service on the login page.

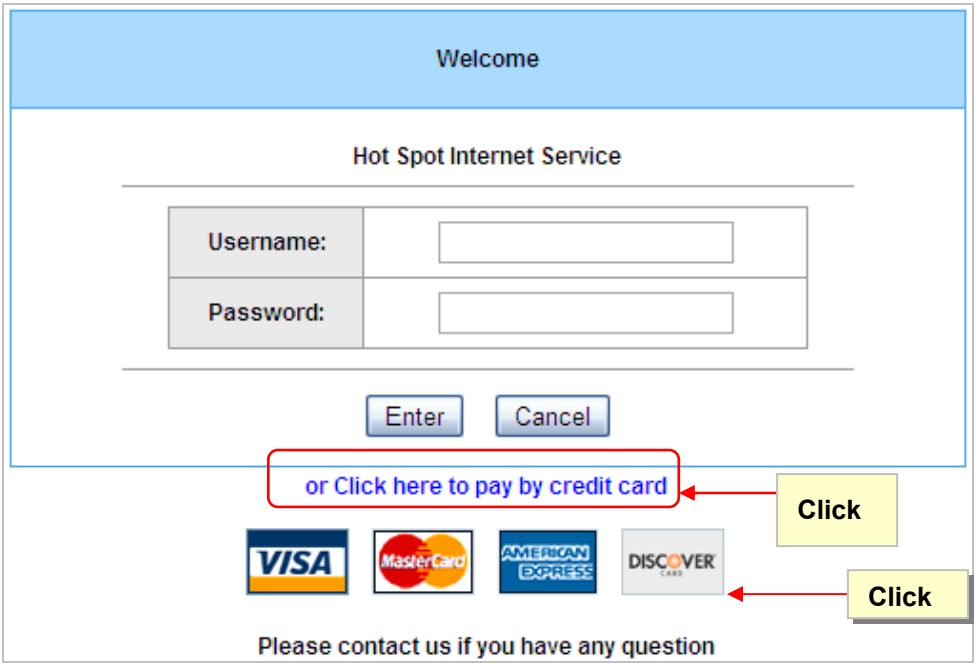


Figure 66 Login Page

2: Select Service and enter payment information.

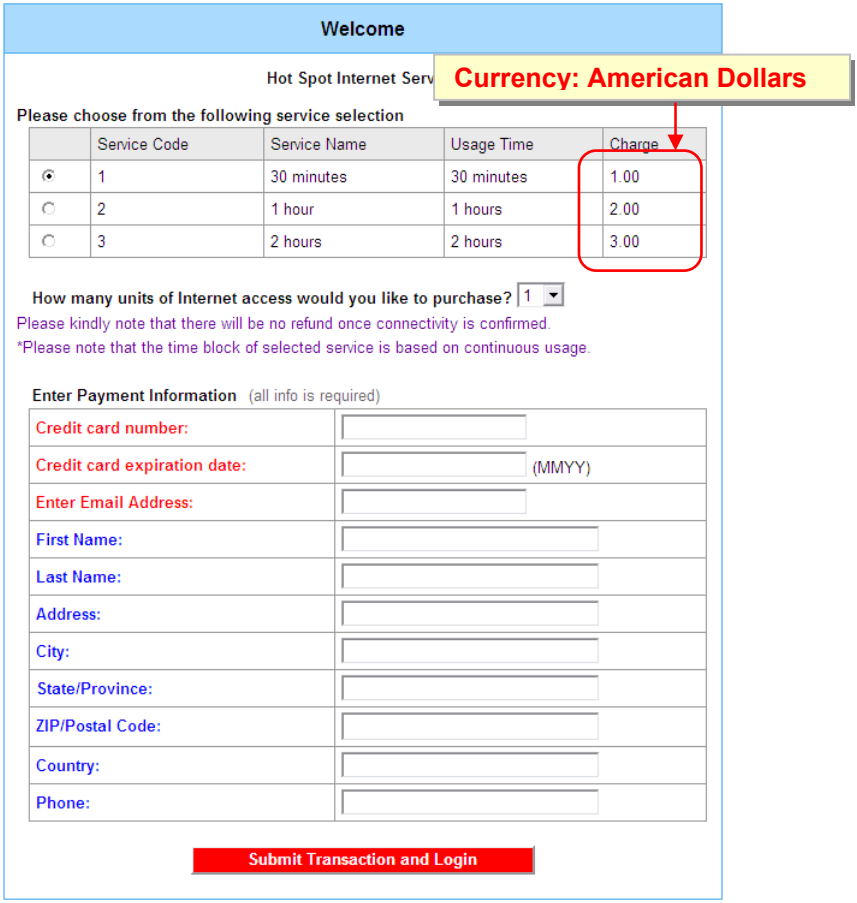


Figure 67 Service & Payment Information Setting Screen (Authorize.net)

Item	Default	Description
Payment Information		
Credit card number	Empty	Enter your credit card number.
Credit card expiration date	Empty	Enter the credit card expiration date. The allowed format is MMYY.
Enter Email Address	Empty	Enter your email address. The system will e-mail you account information once your payment information has been successfully authorized.
First Name, Last Name…..	Empty	Enter the customer information, including name, city, country and country.

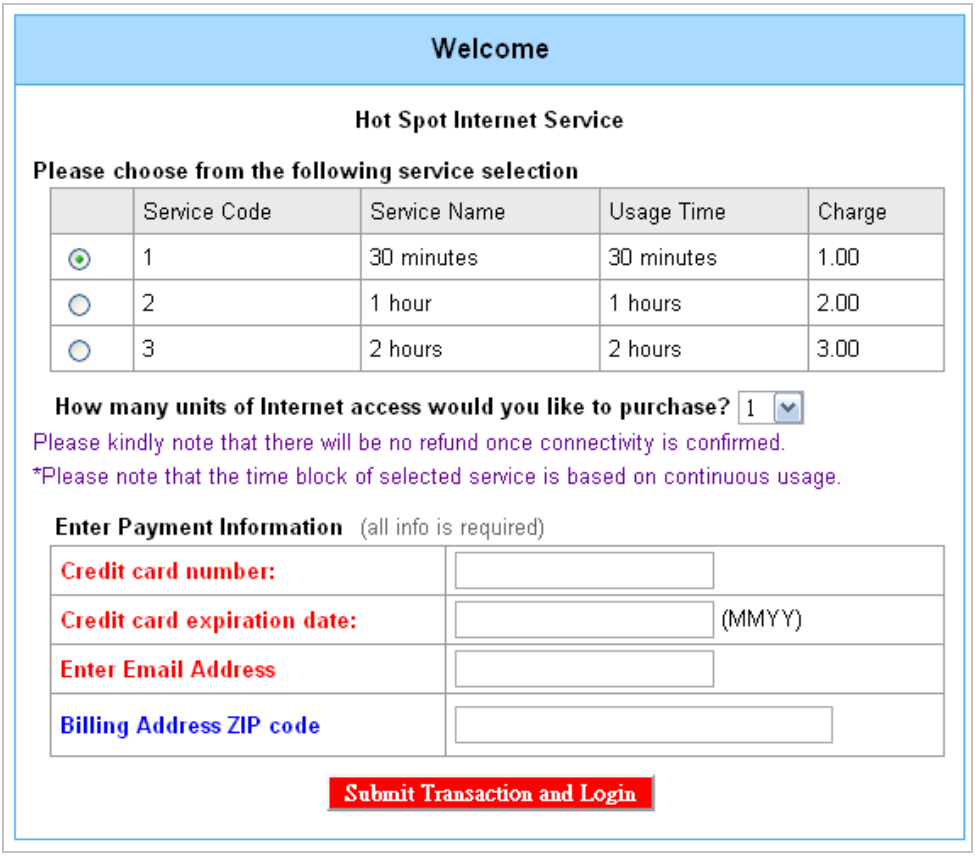


Figure 68 Service & Payment Information Setting Screen (iValidate.net)

Item	Default	Description
Payment Information		
Credit card number	Empty	Enter your credit card number.
Credit card expiration date	Empty	Enter the credit card expiration date. The allowed format is MMYY.
Enter Email Address	Empty	Enter your email address. The system will e-mail your account information once your payment information has been successfully authorized.
Billing Address ZIP code	Empty	Enter the ZIP code.

Figure 69 Service & Payment Information Setting Screen (Secure Pay)

Item	Default	Description
Payment Information		
Credit card number	Empty	Enter your credit card number.
Credit card expiration date	Empty	Enter the credit card expiration date. The allowed format is MMYY.
Enter Email Address	Empty	Enter your email address. The system will e-mail your account information once your payment information has been successfully authorized.

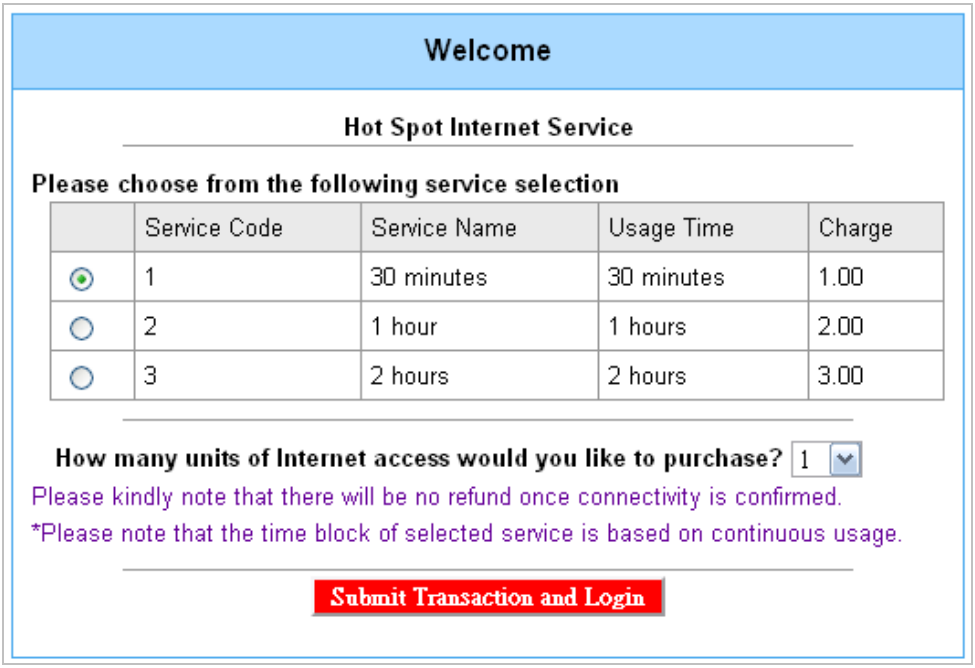


Figure 70 Service & Payment Information Setting Screen (Paypal and WorldPay)

Step 3: After valid payment information has been provided, the subscriber will obtain one valid account to login screen will appear.

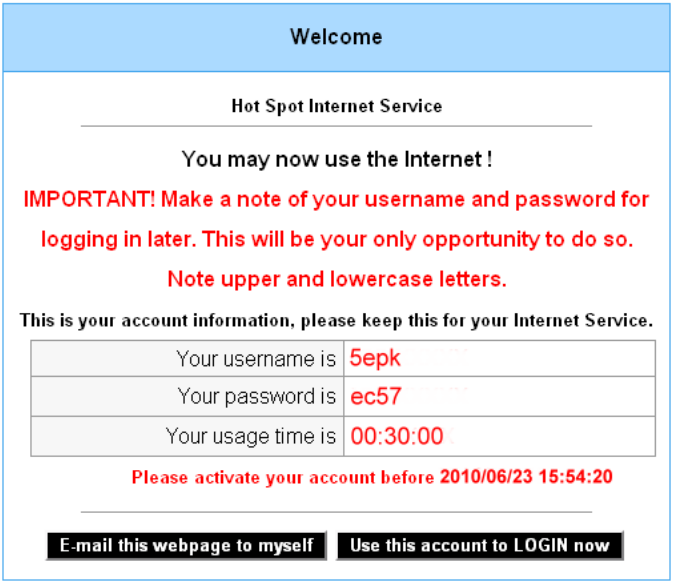

Welcome
Hot Spot Internet Service
You may now use the Internet !
IMPORTANT! Make a note of your username and password for logging in later. This will be your only opportunity to do so.
Note upper and lowercase letters.
This is your account information, please keep this for your Internet Service.
Your username is 5epk
Your password is ec57
Your usage time is 00:30:00
Please activate your account before 2010/06/23 15:54:20
E-mail this webpage to myself
Use this account to LOGIN now

Figure 71 User Account Information

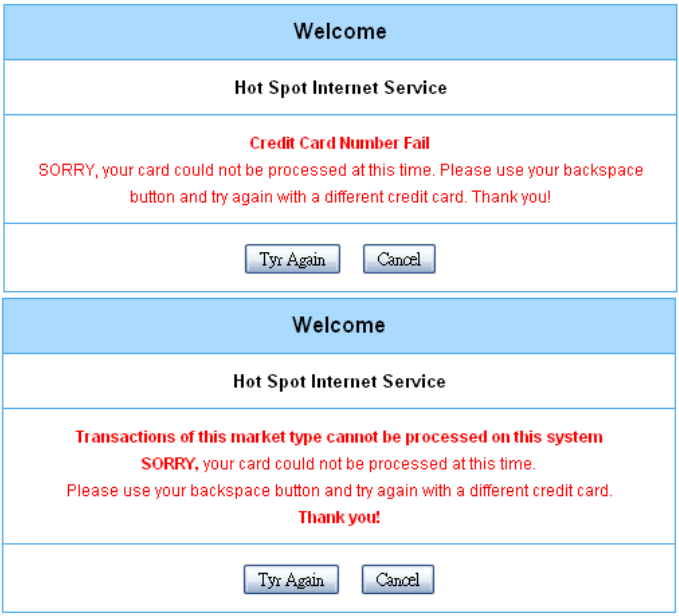

Welcome
Hot Spot Internet Service
Credit Card Number Fail
SORRY, your card could not be processed at this time. Please use your backspace button and try again with a different credit card. Thank you!
Tyr Again
Cancel
Welcome
Hot Spot Internet Service
Transactions of this market type cannot be processed on this system
SORRY, your card could not be processed at this time.
Please use your backspace button and try again with a different credit card.
Thank you!
Tyr Again
Cancel

Figure 72

3-2-3 MANAGEMENT

3-2-3-1 LAN Devices

Administrator can direct remote control to LAN Devices via the Wireless Subscriber Gateway implemented the feature.

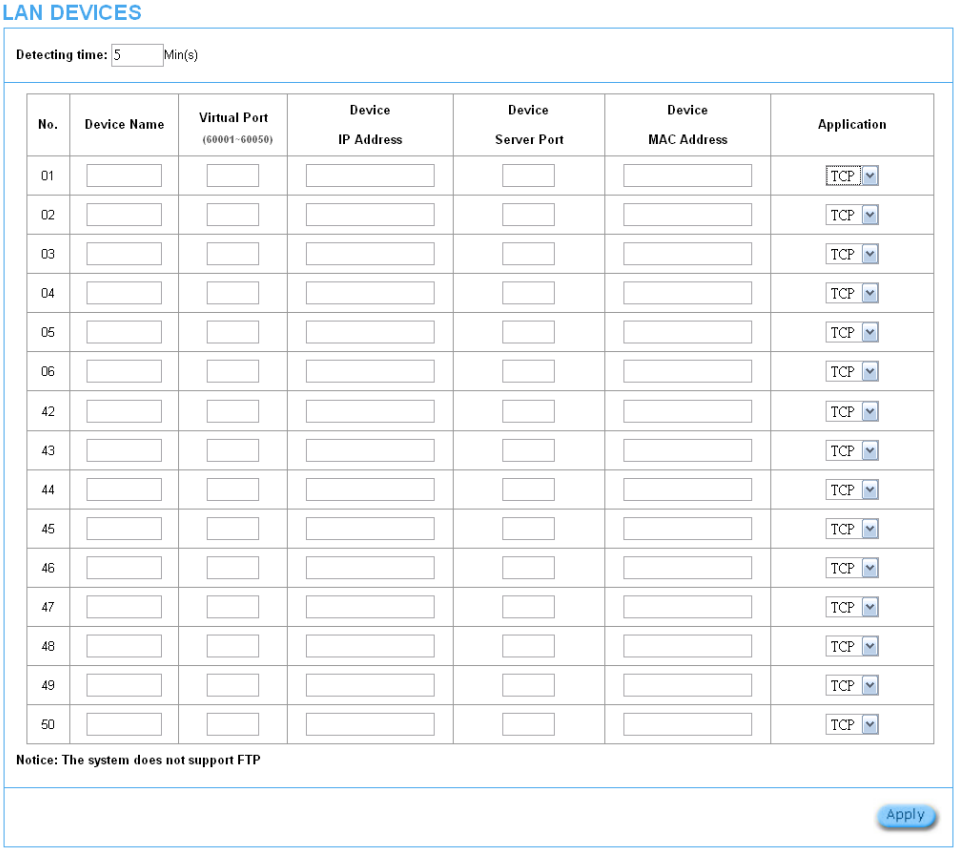


Figure 73 LAN Devices Setting Screen

Item	Default	Description
Polling Interval	5 Min.	The default value is 5 minutes. The Polling Interval valid range is 1 to 1440.
Device Name	Empty	The LAN device name. The maximum character of the device name is 20.
Virtual Port	0	The virtual port number valid range is 60001 to 60050 or 5900 to 5910.
Device IP Address	Empty	Enter the IP address of LAN device in the format “xxx.xxx.xxx.xxx”
Device Server Port	0	Enter the server port of LAN device.
Device MAC Address	Empty	The MAC address of LAN device. For input the device MAC address, please use this format such like”0050BA8D2296”.
Application	TCP	Select one protocol type of LAN device by clicking in the list box.

*Click **Apply** button to save the new settings.*

***Note:** The system does not support FTP.*

3-2-3-2 Syslog

The function allows the device to transmit event messages to your syslog server or your email address for monitoring and troubleshooting.

- **Syslog Setting**

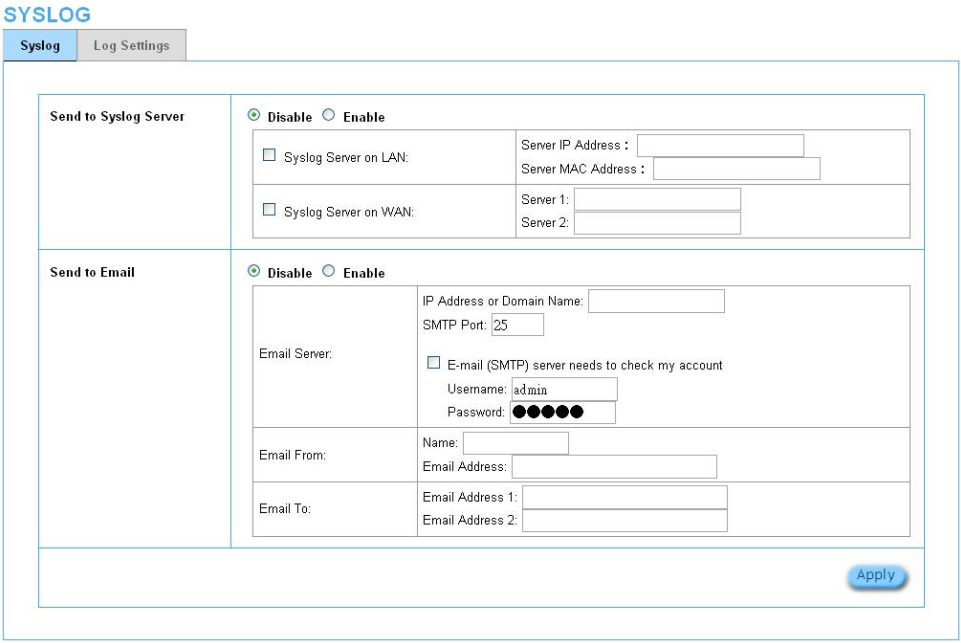


Figure 74 Syslog Setting Screen

Item	Default	Description
Syslog	Disable	Enables or disables the syslog server function.
Syslog on LAN		
Server IP Address	Empty	Enter syslog server's IP address. The Wireless Subscriber Gateway will send all of its logs to the specified syslog server.
Server MAC Address	Empty	Enter the syslog server's MAC address. The Wireless Subscriber Gateway will send all of its logs to the specified syslog server.

Item	Default	Description
Syslog on WAN		
Server 1 IP Address	Empty	Enter IP address of first syslog server.
Server 2 IP Address	Empty	Enter IP address of second syslog server.
Send to Email	Disable	Enables or disables the send to e-mail function.
E-mail Server		
IP Address or Domain Name	Empty	Enter the SMTP server IP address or domain name. The maximum allowed characters length is 50.
SMTP Port	25	The SMTP port allowed range is 25 or 2500 to 2599.
E-mail (SMTP) Server needs to check my account	Disable	If your SMTP server requires authentication before accepting e-mail, click on check box. These values (username and password) are supplied by your network administrator, SMTP server provider or ISP.
Username	Empty	Enter the username for the SMTP server. The maximum allowed characters length is 64.
Password	Empty	Enter the password for the SMTP server
Email From		
Name	Empty	Enter the name you would like to appear in the “message from” field of your outgoing message. The maximum allowed characters length is 20.
Email Address	Empty	Enter your e-mail address. This is the address others will use to send email to Email Address 1/Email Address 2.
Email To		
Email Address 1	Empty	Enter your first e-mail address to receive the logs.
Email Address 2	Empty	Enter your second e-mail address to receive the logs.

*Click **Apply** button to save the new settings.*

*Click **Apply** button, the success dialog box appears. Click on **Back** to return to Syslog setting screen*

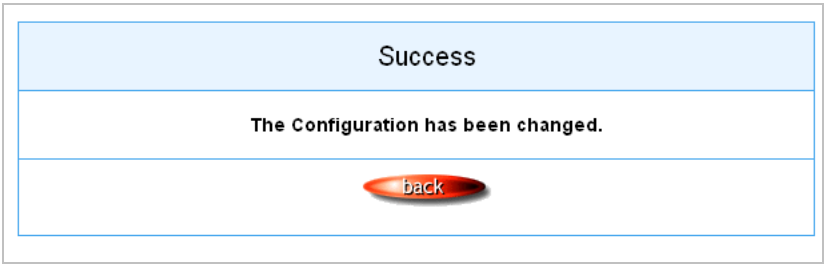


Figure 75 Success Dialog Box

- **Log Categories**

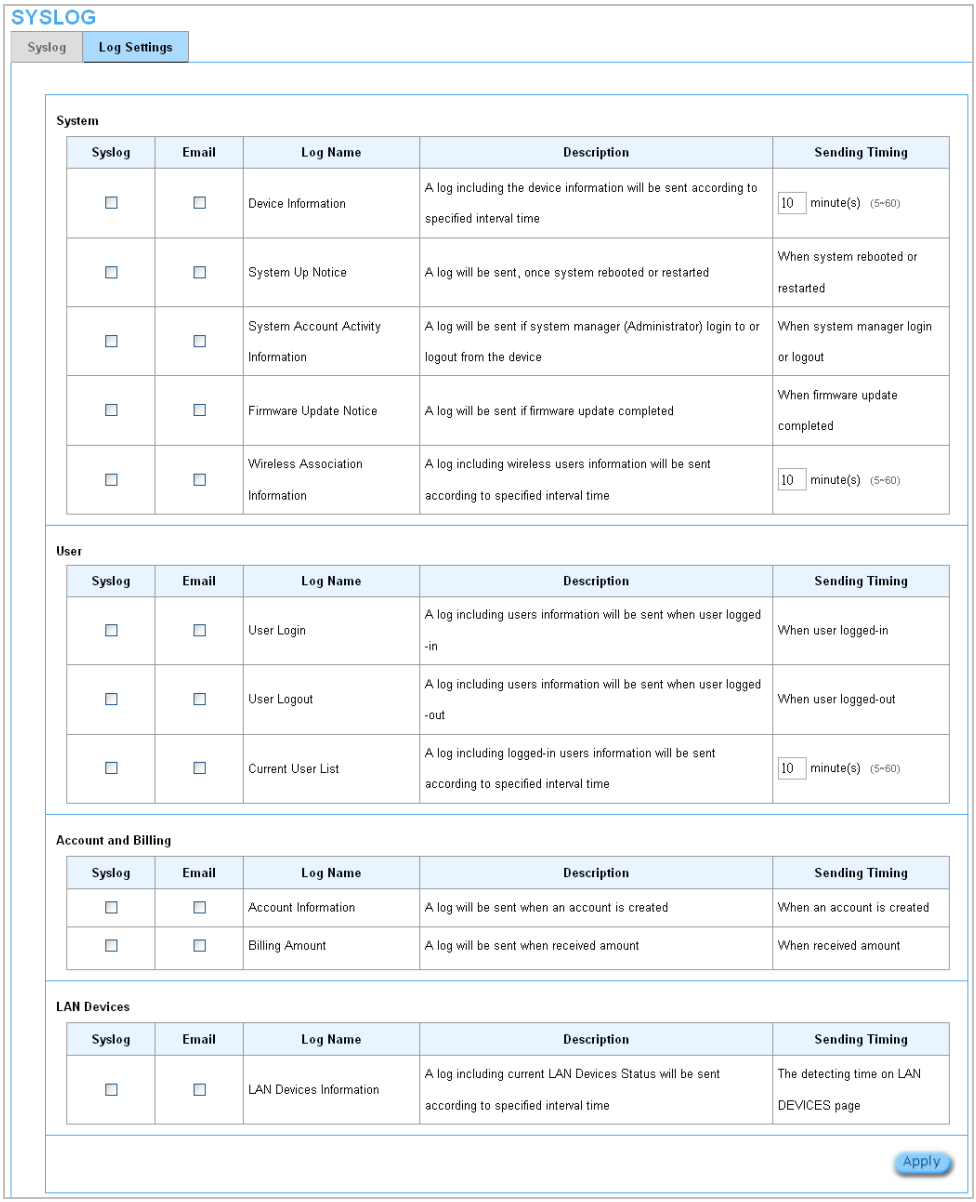

SYSLOG
Syslog
Log Settings
System
Syslog
Email
Log Name
Description
Sending Timing
Device Information
A log including the device information will be sent according to specified interval time
10 minute(s) (5~60)
System Up Notice
A log will be sent, once system rebooted or restarted
When system rebooted or restarted
System Account Activity Information
A log will be sent if system manager (Administrator) login to or logout from the device
When system manager login or logout
Firmware Update Notice
A log will be sent if firmware update completed
When firmware update completed
Wireless Association Information
A log including wireless users information will be sent according to specified interval time
10 minute(s) (5~60)
User
Syslog
Email
Log Name
Description
Sending Timing
User Login
A log including users information will be sent when user logged -in
When user logged-in
User Logout
A log including users information will be sent when user logged -out
When user logged-out
Current User List
A log including logged-in users information will be sent according to specified interval time
10 minute(s) (5~60)
Account and Billing
Syslog
Email
Log Name
Description
Sending Timing
Account Information
A log will be sent when an account is created
When an account is created
Billing Amount
A log will be sent when received amount
When received amount
LAN Devices
Syslog
Email
Log Name
Description
Sending Timing
LAN Devices Information
A log including current LAN Devices Status will be sent according to specified interval time
The detecting time on LAN DEVICES page
Apply

Figure 76 Log Settings Screen

Item	Interval Time	Description
System		
Device Information	5~60 minutes	The log included system information would be sent according to specified interval time. **Format:** PRODUCT=WG-604;VER=2.00.00;LOGNAME=DVI; DATE=07Mar26;TIME=11:30:00; WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21; SYS_UP_TIME=14D23H34M21S;WANTXOK=99999; WANRXOK=99999;WANTXERROR=99999;WANRXERROR=99999; LANTXOK=99999;LANRXOK=99999;LANTXERROR=99999; LANRXERROR=99999;WIRELESSTXOK=99999;WIRELESSRXOK=99999; WIRELESSTXERROR=99999;WIRELESSRXERROR=99999; WAN_QUALITY=5;
System Up Notice	When system rebooted or restarted	If device have been rebooted or restarted, the log would be sent. **Format:** PRODUCT=WG-604;VER=2.00.00;LOGNAME=SUN; DATE=07Mar26;TIME=15:23:32; WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21; SYS_NAME=Cafehotspot;LOCATION=East;CITY=Taipei; COUNTRY=Taiwan; FIRMWARE=v1.01.02;MESSAGE=System_Up; **Message** = System_Reboot
System Account Activity Information	When system manager login or logout	A log will be sent if system manager (Administrator) login to or logout from the device **Format:** PRODUCT=WG-604;VER=2.00.00;LOGNAME=SUN; DATE=07Mar26;TIME=15:23:32; WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21; SYS_NAME=Cafehotspot;LOCATION=East;CITY=Taipei; COUNTRY=Taiwan; FIRMWARE=v1.01.02;MESSAGE=System_Up; **Account Name** = Admin | Supervisor | Operator **Status**= Login | Logout | Idle_Time_Out
Firmware Update Notice	When firmware update completed	A log will be sent if firmware update completed **Format:** PRODUCT=WG-604;VER=2.00.00;LOGNAME=FUN; DATE=07Mar26;TIME=15:23:32; WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21; MESSAGE=Success;OLD_FRIMWARE=v1.00.01; NEW_FIRMWARE=v1.00.02 **Message** = Success | Fail

Item	Interval Time	Description
Wireless Association Information	5~60 minutes.	A log including wireless users information will be sent according to specified interval time. **Format:** PRODUCT=WG-604;VER=2.00.00;LOGNAME=WAI; DATE=07Mar26;TIME=15:23:32; WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21; USER_NUM=15;SEQ=1-5;USER_MAC=02-34-3e-01-00;
User		
User Login	When user logged-in	A log including users information will be sent when user logged –in **Format:** PRODUCT=WG-604;VER=2.00.00;LOGNAME=ULI;DATE=07Mar26; TIME=15:23:32;WANMAC=09-00-0e-00-00-01; LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12;USER_IP=10.59.1.1; USER_MAC=02-34-3e-01-00;INTERFACE=Ethernet; USER_TYPE=Dynamic; **User Type** = Dynamic / Super / User Agreement / Radius / No-Auth
		When User Replenish login format: PRODUCT=WG-604;VER=2.00.00;LOGNAME=URP;DATE=07Mar26; TIME=15:23:32; WANMAC=09-00-0e-00-00-01; LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12; REP_USER_NAME=kifm2fs3;USER_IP=10.59.1.1; USER_MAC=02-34-3e-01-00; INTERFACE=Ethernet; USER_TYPE=Dynamic; USED_TIME=24:00:00;TIME_LEFT=24:00:00 **User Type** = Dynamic / Radius
User Logout	When user logged-out	A log including users information will be sent when user logged –out **Format:** PRODUCT=WG-604;VER=2.00.00;LOGNAME=ULO;DATE=07Mar26; TIME=15:23:32;WANMAC=09-00-0e-00-00-01; LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12;USER_IP=10.59.1.1; USER_MAC=02-34-3e-01-00;INTERFACE=Ethernet; USER_TYPE=Dynamic;RXDATA=1234; TXDATA=1234; USED_TIME=24:00:00;LOGOUT_TYPE=Time_Up;TIME_LEFT=24:00:00 **User Type =** Dynamic / Super / User Agreement / Radius / No-Auth
Current User List	.	A log including logged-in users information will be sent according to specified interval time **Format:** PRODUCT=WG-604;VER=2.00.00;LOGNAME=CUL;DATE=07Mar26; TIME=15:23:32;WANMAC=09-00-0e-00-00-01; LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21;USER_NUM=0;SEQ=1-5; USER_NAME=asdfg12,USER_IP=10.59.1.2,USER_MAC=02-34-3e-01-00, INTERFACE=Ethernet,USER_TYPE=Dynamic,RXDATA=1234, TXDATA=1234,USED_TIME=24:00:00,SESSION=100,WLAN_SIG=N/A;

Item	Interval Time	Description
		USER_NAME=dk6uf2eg,USER_IP=10.59.1.3,USER_MAC=02-34-3e-01-02, INTERFACE=Wireless,USER_TYPE=Dynamic,RXDATA=1234, TXDATA=1234,USED_TIME=24:00:00,SESSION=100,WLAN_SIG=100%; **User Type** = Dynamic / Super / User Agreement / Radius / No-Auth **User Name** = If the type of user is Super/User Agreement/No-Auth , the username=****
Account and Billing		
Account Information	When an account is created	A log will be sent when an account is created **Format:** PRODUCT=WG-604;VER=2.00.00;LOGNAME=ACI;DATE=07Mar26; TIME=15:23:32;WANMAC=09-00-0e-00-00-01; LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12; ACCOUNT_TYPE=TimetoFinish; ACCOUNT_SERIAL=000002; ACCOUNT_PRICE= USD20.00; ACCOUNT_USAGE_TIME=10:59:59; BILLING_INDEX=1;BILLING_UNIT=2; **Account Type** = TimeToFinish / Accumulation / PostPaid **Account Price = Currencyxx.xx** **Currency** = AUD | CHF | EUR | GBP | JPY | RIY | USD
Billing Amount	When received amount	A log will be sent when received amount Format: PRODUCT=WG-604;VER=2.00.00;LOGNAME=BLA; DATE=07Mar26; TIME=15:23:32;WANMAC=09-00-0e-00-00-01; LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21;USER_NAME=username; BILL_TYPE=Cash, BILL_AMOUNT= USD50.00 **Billing Type**= Cash | Credit_Card， **Billing Amount** = xx.xx **Currency** = AUD | CHF | EUR | GBP | JPY | RIY | USD……
LAN Devices		
LAN Device Information	The detecting time on LAN DEVICES page	A log including current LAN Devices Status will be sent according to specified interval time Format: PRODUCT=WG-604;VER=2.00.00;LOGNAME=LDS;DATE=07Mar26; TIME=15:23:32;WANMAC=09-00-0e-00-00-01; LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21;LAN_DV_NUM=15;SEQ=1-10; LAN_DV_NAME=abcd, STATUS=OK **Status** = OK | Fail

*Click **Apply** button to save the new settings.*

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Logs setting screen.

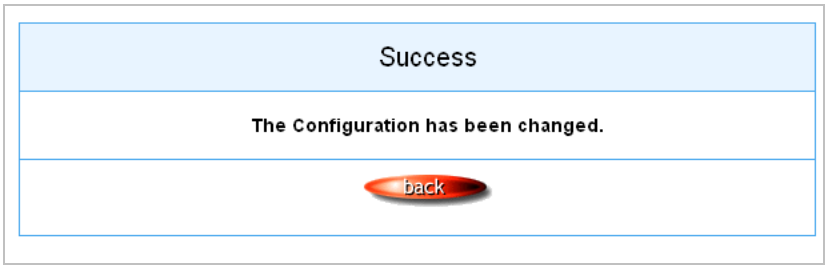


Figure 77 Success Dialog Box

3-2-3-3 Session Trace

Session Trace is an intelligent function to help service provider to trace every user's access behavior. When "session trace" is enable , the system will collect information such like destination IP, destination port, source IP, source MAC, source port by every user and send the collected information in text format file to specified TFTP server or Email Server.

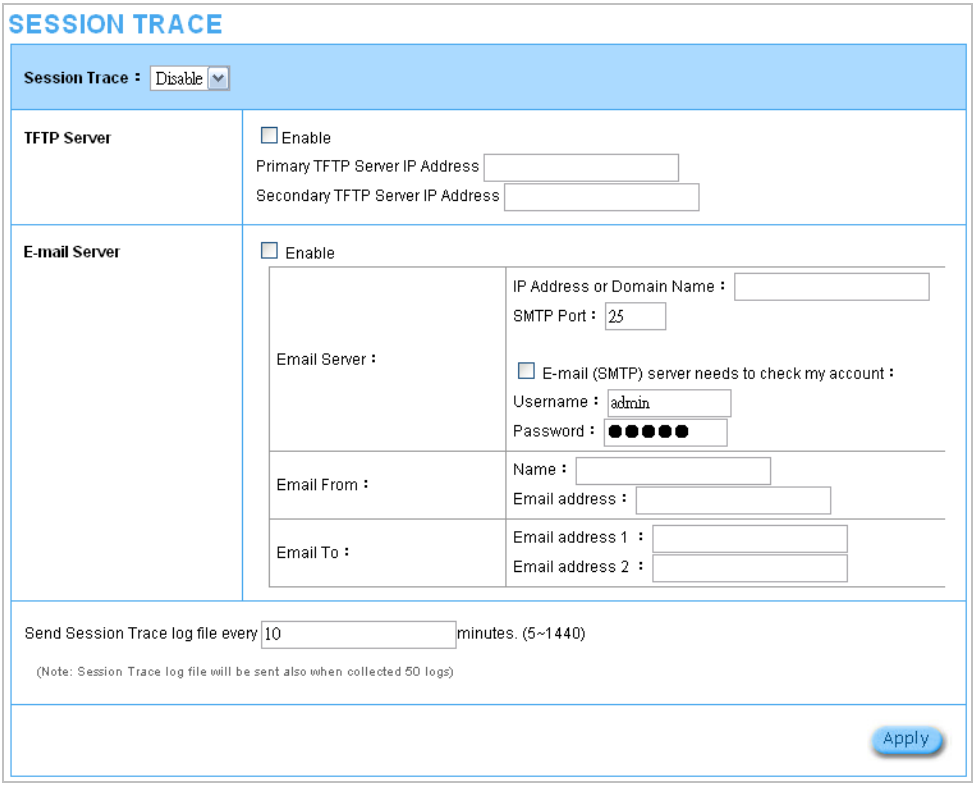

SESSION TRACE
Session Trace : Disable
TFTP Server
Enable
Primary TFTP Server IP Address
Secondary TFTP Server IP Address
E-mail Server
Enable
Email Server :
IP Address or Domain Name :
SMTP Port : 25
E-mail (SMTP) server needs to check my account :
Username : admin
Password :
Email From :
Name :
Email address :
Email To :
Email address 1 :
Email address 2 :
Send Session Trace log file every 10 minutes. (5~1440)
(Note: Session Trace log file will be sent also when collected 50 logs)
Apply

Figure 78 Session Trace Setting Screen

Item	Default	Description
Session Trace	Disable	Disables or enables session trace function.
Primary TFTP Server IP Address	Empty	Enter the IP address of the primary TFTP server.
Secondary TFTP Server IP Address	Empty	Enter the IP address of the second TFTP server.
Send Session Trace log file every~ minutes.	10 minutes	The field means to send the session trace log file every interval minutes. The value range is 5 to 1440 (minutes).

Item	Default	Description
Send to Email	Disable	Enables or disables the send to e-mail function.
E-mail Server		
IP Address or Domain Name	Empty	Enter the SMTP server IP address or domain name. The maximum allowed characters length is 50.
SMTP Port	Empty	The SMTP port allowed range is 25 or 2500 to 2599.
E-mail (SMTP) Server needs to check my account	Disable	If your SMTP server requires authentication before accepting e-mail, click on check box. These values (username and password) are supplied by your network administrator, SMTP server provider or ISP.
Username	Empty	Enter the username for the SMTP server. The maximum allowed characters length is 64.
Password	Empty	Enter the password for the SMTP server
Email From		
Name	Empty	Enter the name you would like to appear in the “message from” field of your outgoing message. The maximum allowed characters length is 20.
Email Address	Empty	Enter your e-mail address. This is the address others will use to send email to Email Address 1/Email Address 2.
Email To		
Email Address 1	Empty	Enter your first e-mail address to receive the logs.
Email Address 2	Empty	Enter your second e-mail address to receive the logs.

3-2-3-4 Bandwidth

The function enables administrator to limit bandwidth usage on a per user basis (MAC address). That prevents users from consuming a disproportionately large amount of bandwidth so every user gets a fair share of the available bandwidth.

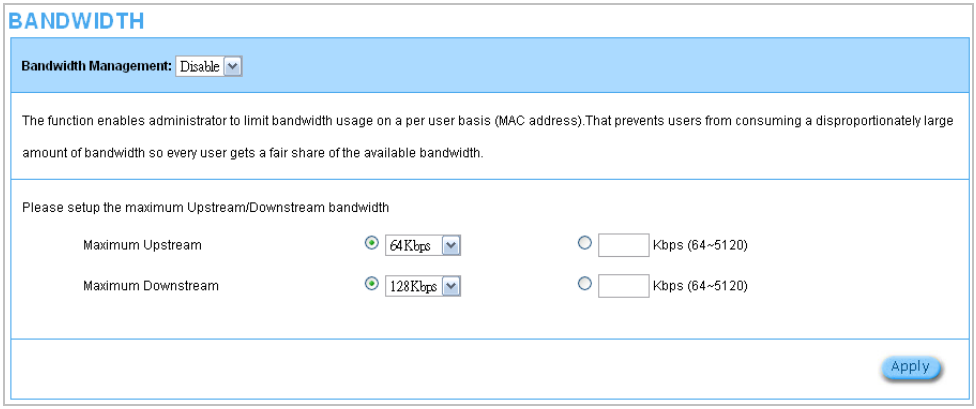

BANDWIDTH
Bandwidth Management: Disable
The function enables administrator to limit bandwidth usage on a per user basis (MAC address).That prevents users from consuming a disproportionately large amount of bandwidth so every user gets a fair share of the available bandwidth.
Please setup the maximum Upstream/Downstream bandwidth
Maximum Upstream
64Kbps
Kbps (64~5120)
Maximum Downstream
128Kbps
Kbps (64~5120)
Apply

Figure 79 Bandwidth Setting Screen

Item	Default	Description
Bandwidth	Disable	Enables or disables Bandwidth Management.
Maximum Upstream	64Kbps	Specify the amount of upstream bandwidth.
Maximum Downstream	128Kbps	Specify the amount of downstream bandwidth.

3-2-3-5 SNMP

The SNMP Agent Configuration screen enables you to access to your device via Simple Network Management Protocol. If you are not familiar with SNMP, please consult your Network Administrator or consult SNMP reference material. You must first enable SNMP on the SNMP Agent Configuration screen.

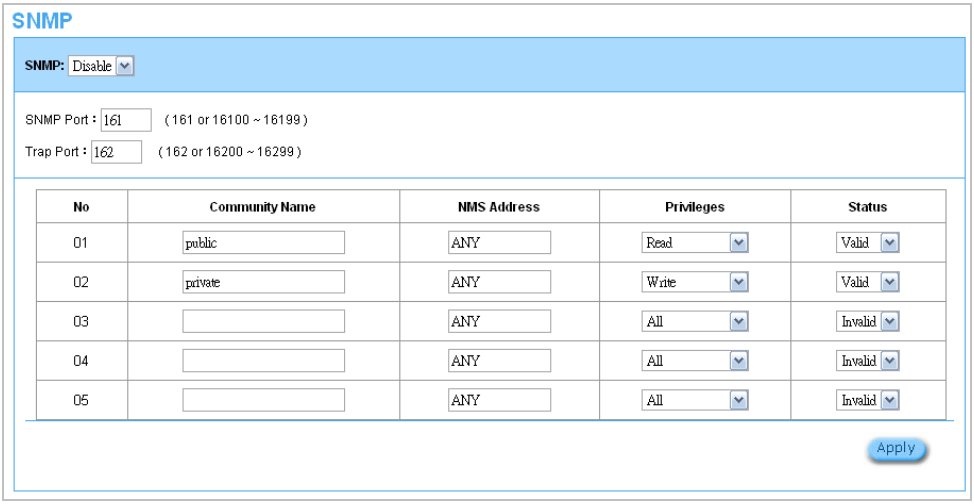


Figure 80 SNMP Setting Screen

Item	Default	Description
SNMP	Disable	Disables or enables the SNMP management.
SNMP Port	161	If the SNMP enables, also allowed to specific the SNMP port number via NAT. The allowed SNMP port numbers are 161 (default), 16100-16199 and Trap port numbers are 162 (default), 16200-16299. This Port setting is useful for remote control via NAT network.
Trap Port	162	
Configuration		
Community Name	public/private	Every unit with SNMP enable must be configured to recognize one or more community names up to 20 characters. The default setting for the community of entry 1 is “public” and for the entry 2 is “private” and others are empty.
NMS Address	ANY	The address of the NMS. The default settings for the NMS Networking are “ANY”.

Item	Default	Description
Privileges	Read/Write	Choose “Read”, “Write”, “Trap Recipients” and “All” for different privileges. The default setting of the entry 2 is “write” and others are “read”.
Status	Valid/Invalid	Chosen “Valid” or “Invalid”. The default setting of entry 1, 2 are valid and others are invalid.

3-2-4 SECURITY

3-2-4-1 Pass Through

This function allow administrator to set some special devices pass through the Wireless Subscriber Gateway system. Because some network devices might be constructed under the Wireless Subscriber Gateway. However these devices needn’t be checked and authorized. The Wireless Subscriber Gateway provides a pass through list and the administrator can control which devices can be pass through with authentication.

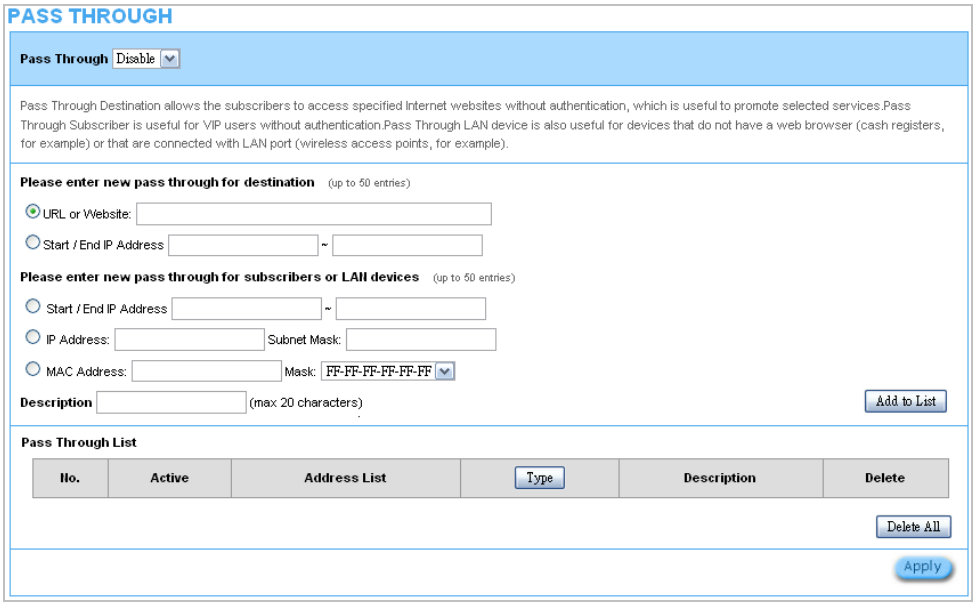

PASS THROUGH
Pass Through Disable
Pass Through Destination allows the subscribers to access specified Internet websites without authentication, which is useful to promote selected services.Pass Through Subscriber is useful for VIP users without authentication.Pass Through LAN device is also useful for devices that do not have a web browser (cash registers, for example) or that are connected with LAN port (wireless access points, for example).
Please enter new pass through for destination (up to 50 entries)
URL or Website:
Start / End IP Address ~
Please enter new pass through for subscribers or LAN devices (up to 50 entries)
Start / End IP Address ~
IP Address: Subnet Mask:
MAC Address: Mask: FF-FF-FF-FF-FF-FF
Description (max 20 characters)
Add to List
Pass Through List
No. Active Address List Type Description Delete
Delete All
Apply

Figure 81 Pass through Setting Screen

Item	Default	Description
Pass Through	Disable	Enables or disables the pass through function.
Destination URL/IP Address Pass Through		
◉ URL or Website:		
URL or Website	Empty	Enter the URL Page; please use this format such like “http://www.yahoo.com”. The maximum character of the URL Page is 50.
◉ Start / End IP Address: ~		
Start IP Address	Empty	Enter the start IP address of you wants pass through.
End IP Address	Empty	Enter the end IP address of you wants pass through.
Subscriber IP/MAC Address or LAN Device Pass Through		
◉ Start / End IP Address: ~		
Start IP Address	Empty	Enter the start IP address of you wants pass through.
End IP Address	Empty	Enter the end IP address of you wants pass through.
◉ IP Address: Subnet Mask:		
IP Address	Empty	Enter the IP address of you wants pass through.
Subnet Mask	Empty	Enter the subnet mask of you wants pass through.
◉ MAC address: Mask: FF-FF-FF-FF-FF-FF		
MAC Address	Empty	Enter the MAC address of you wants pass through.
Mask	Empty	Enter the subnet mask of you wants pass through.
Pass Through List	Display the pass through Information of Wireless Subscriber Gateway.	
No.	-	The index number of pass through address.
Active	Disable	Click on check box, active or inactive the pass through address.
Address List	-	Display the pass through address(s).
Type	-	Display the type of pass through address.
Delete	Disable	Select the check boxes and click ‘Delete’ to delete the pass through address(s).

Add to List *Click **Add to List** button to add a new entry.*

Apply *Click **Apply** button to save the new settings.*

Delete All *Click **Delete All** & **Apply** button to delete all entries.*

***Note:** The priority of "pass through" is higher than "Filtering".*

3-2-4-2 Filtering

Filtering allows the system administrator to have a list of restricted destinations, which is useful to block specified Internet websites or Intranet areas.

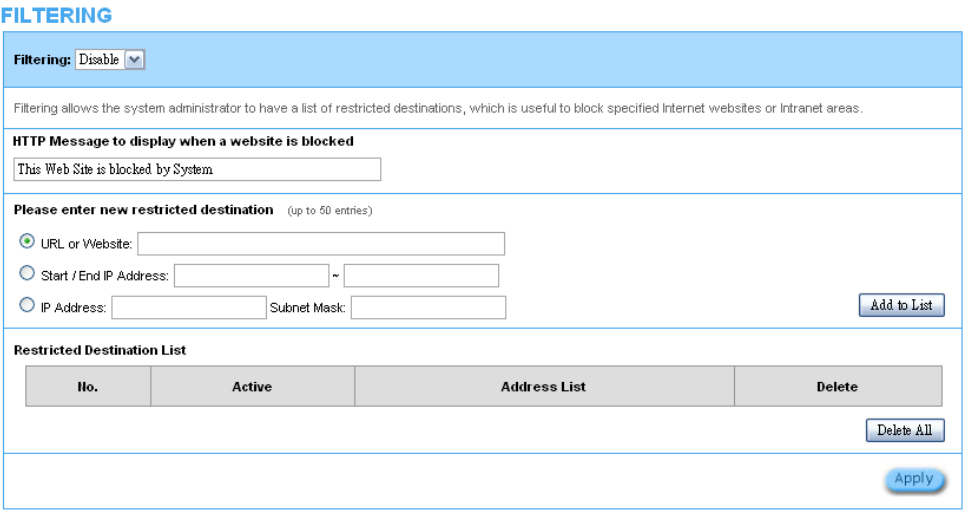

FILTERING
Filtering: Disable
Filtering allows the system administrator to have a list of restricted destinations, which is useful to block specified Internet websites or Intranet areas.
HTTP Message to display when a website is blocked
This Web Site is blocked by System
Please enter new restricted destination (up to 50 entries)
URL or Website:
Start / End IP Address: ~
IP Address: Subnet Mask:
Add to List
Restricted Destination List
No.
Active
Address List
Delete
Delete All
Apply

Figure 82 Filtering Setting Screen

Item	Default	Description
Filtering	Disable	Enables or disables filtering function.
HTTP Message to display when a website is blocked	The Web Site is blocked by System	Enter the http message. The maximum character of the HTTP message is 200.

Figure 83 Error Dialog Box

Item	Default	Description
Restrict Destination ◉ URL or Website:		
URL or Website	Empty	Enter the URL Page of you wants to filter; please use this format such like “http://www.yahoo.com”. The maximum character of the URL Page is 50.
◉ Start / End IP Address: ~		
Start IP Address	Empty	Enter the start IP address of you wants to filter.
End IP Address	Empty	Enter the end IP address of you wants to filter.
◉ IP Address: Subnet Mask:		
IP Address	Empty	Enter the destination IP address of you wants to filter.
Subnet Mask	Empty	Enter the destination subnet mask.
No	-	The index number of filtering address.
Active	Disable	Click on check box, active or inactive the filtering address.
Address List	-	Display the filtering address(s).
Delete	Disable	Select the check boxes and click ‘**Delete**’ to delete the filtering address(s).

Add to List *Click **Add to List** button to add a new entry.*

Apply *Click **Apply** button to save the new settings.*

Delete All *Click **Delete All** & **Apply** button to delete all entries.*

***Note:** The priority of "pass through" is higher than "Filtering".*

3-2-4-3 Share

This feature allows sharing the network devices after subscriber successful login.

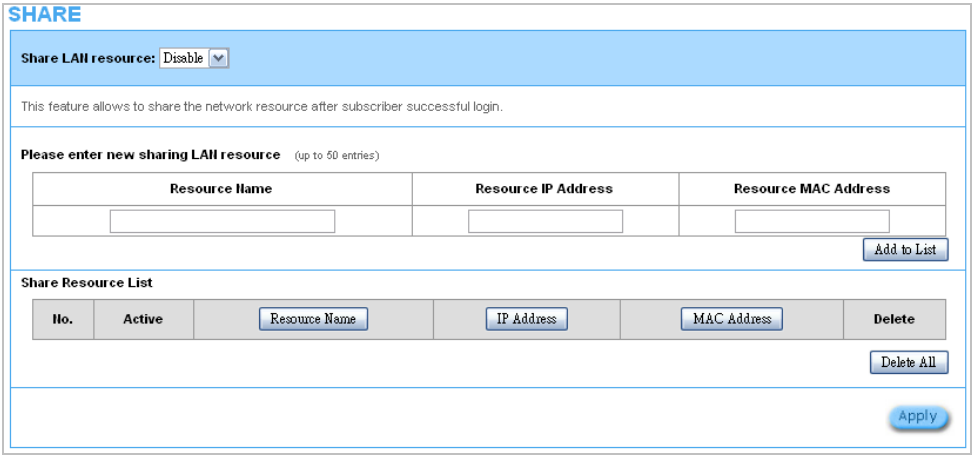


Figure 84 Share Device Setting Screen

Item	Default	Description
Share LAN resource	Disable	Enables or disables share LAN resource function.
Resource Name	Empty	Enter the device name. The maximum character of the resource name is 30.
Resource IP Address	Empty	Enter the IP address of device in the format “xxx.xxx.xxx.xxx”.
Resource MAC Address	Empty	Enter the MAC address of device. For input the device MAC address, please use this format such like”0050BA8D2296”.
Interface	Wired	Select the interface.
Share LAN resource List		
No.	-	The index number of share LAN device.
Active	Disable	Click on check box, active or inactive the share LAN device.
Resource Name	-	Display the device name.
IP Address	-	Display the IP address of device.
MAC Address	-	Display the MAC address of device.
Interface	-	Display the interface of device.
Delete	Disable	Select the check boxes and click ‘**Delete**’ to delete the share device(s).

Note:

*1. You must use the “**Search IP**” method to search for a device on the network. Please follow steps below to search your device.*

*☞ Click **Start**, and then click **Search**.*

☞ *Click **Computers or People**.*

☞ *Click "**A computer on the network**".*

☞ *In Computer, type the IP address of the device you want to find. Click **Search**.*

2. The function support only Unicast and IP Protocol.

---

*Click **Add to List** button to add a new entry.*

*Click **Apply** button to save the new settings.*

*Click **Delete All** & **Apply** button to delete all entries.*

3-2-4-4 Secure Remote

This feature allows you to create a secure connection to a remote site or back end system with VPN PPTP Client. If “Secure Remote” is enabled, the RADIUS packet/ syslog will be transferred to this secure connection.

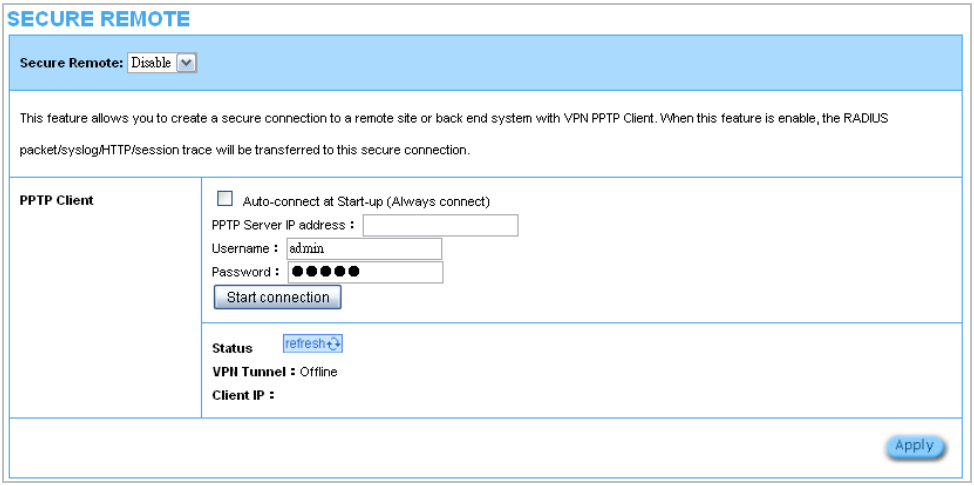

SECURE REMOTE
Secure Remote: Disable
This feature allows you to create a secure connection to a remote site or back end system with VPN PPTP Client. When this feature is enable, the RADIUS packet/syslog/HTTP/session trace will be transferred to this secure connection.
PPTP Client
Auto-connect at Start-up (Always connect)
PPTP Server IP address :
Username : admin
Password :
Start connection
Status
refresh
VPN Tunnel : Offline
Client IP :
Apply

Figure 85 Secure Remote Setting Screen

Item	Default	Description
Auto-connect at Start-up (Always connect)	Disable	Enable the check box to automatically establish the PPTP connection.
PPTP Server IP address	Empty	Enter the PPTP server IP address provided by your ISP.
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.
Start connection		Click on Start/Stop connection button to start/stop PPTP connection.
refresh	Click on refresh button to update the status.	
VPN Tunnel	Display the status.	
Client IP	Display the IP address.	

3-2-5 SYSTEM

3-2-4-1 System

Define the Wireless Subscriber Gateway System configuration.

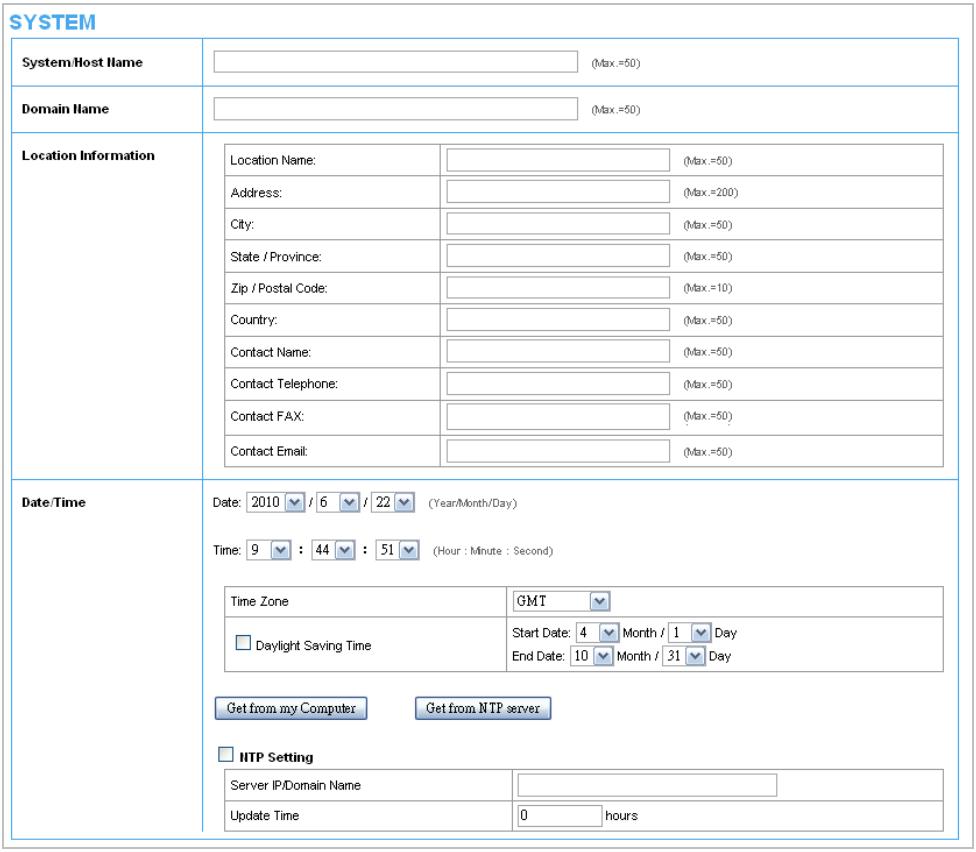


Figure 86 System Setting Screen

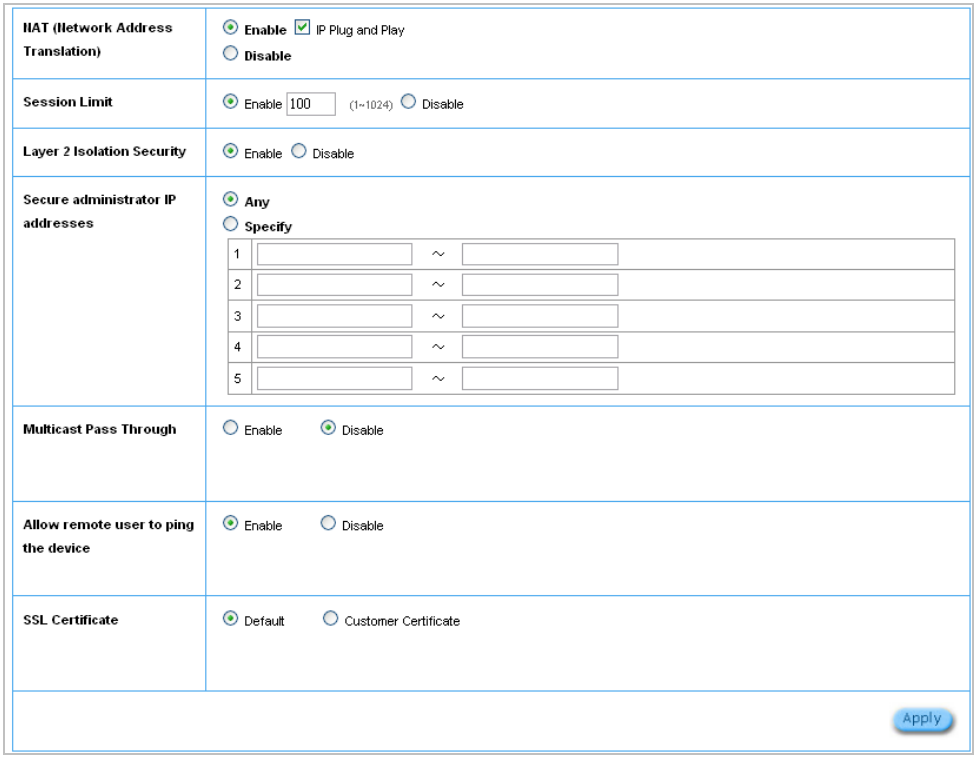


Figure 87 System Setting Screen

Item	Default	Description
System/Host Name	Empty	The system name can consist of up to 40 alphanumeric characters.
Domain Name	Empty	The Domain name can consist of up to 80 alphanumeric characters.
Location Information	Empty	Enter your location information.
Date/Time		
Date (Year/Month/Day)	System Date	The system date of the Wireless Subscriber Gateway. The valid setting of year is from 2002 to 2035.
Time (Hour:Minute:Second)	System Time	The system time of the Wireless Subscriber Gateway.
Get from my Computer	-	Click “Get from my Computer” button to correct the system date and time.
Get from NTP server	-	Click “Get from NTP server” button to correct the system date and time.

Item	Default	Description
NTP Setting	Disable	Enables or disables NTP (Network Time Protocol) Time Server. Network Time Protocol can be utilized to synchronize the time on devices across a network. A NTP Time Server is utilized to obtain the correct time from a time source and adjust the local time.
Server IP/Domain Name	Empty	Enter the IP address/domain name of NTP server. The maximum allowed characters length is 100.
Time Zone	GMT-12:00	Select the appropriate time zone for your location.
Update Time	0 hours	Enter the number of hours for update time.
Daylight Saving Time	Disable	Enables or disables Daylight Saving Time (DST).
	Month/Day	Set the Daylight Saving Time (DST) on the Wireless Subscriber Gateway. Adjust the begin time and end time.
NAT (Network Address Translation)		
NAT	Enable	Enables or disables NAT Address Translation function.
User Session Limited	Enable,30	Enables or disables user session limit function. This feature provides you an ability to control a number of sessions allowed for particulars user(s) at the one time.
IP Plug and Play (iPnP Technology)	Enable	Enables or disables plug & play function. When enabled, the user needn't change their network configuration to access the Internet.
Layer 2 Isolation Security	Enable	If enable plug and play is selected, you can enable Layer 2 Isolation Security function. When the "Layer 2 Isolation Security" enabled, everyone cannot communicate with each other.
Secure administrator IP Addresses	Any	Options: Any and Specify. Administrator can specify 5 IP addresses or a range to allow remote control access from network.
Multicast Pass Through	Disable	This function allows for multiple transmissions to specific recipients at same time.
Allow remote user to ping the device	Enable	This function allows remote user to ping the Wireless Subscriber Gateway through Internet. Ping is normally used to test the physical connection between two devices, to ensure that everything is working correctly.

Item	Default	Description
SSL Certificate	Default	Option: default or customize certificate, These are two ways to create a certificate, one is purchase a certificate from a certificate authority (Ex. Verisign or Thawte), and another is creating a self-certificate (For example: Uses OpenSSL tool).

Apply *Click **Apply** button to save the new settings.*

Click **Apply** button, then Restart dialog box will appear. Click **Apply** to restart the system.

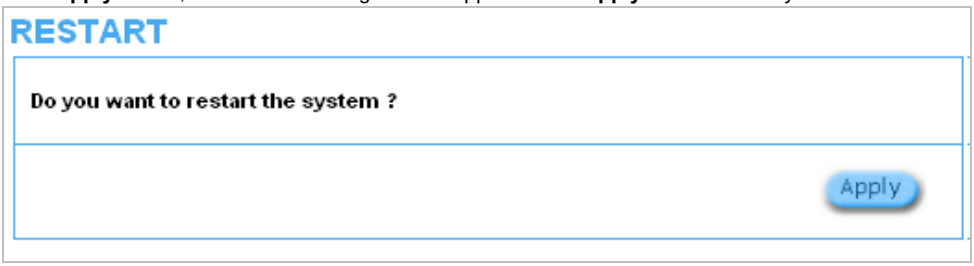


Figure 88 Restart Dialog Box

3-2-4-2 WAN/LAN

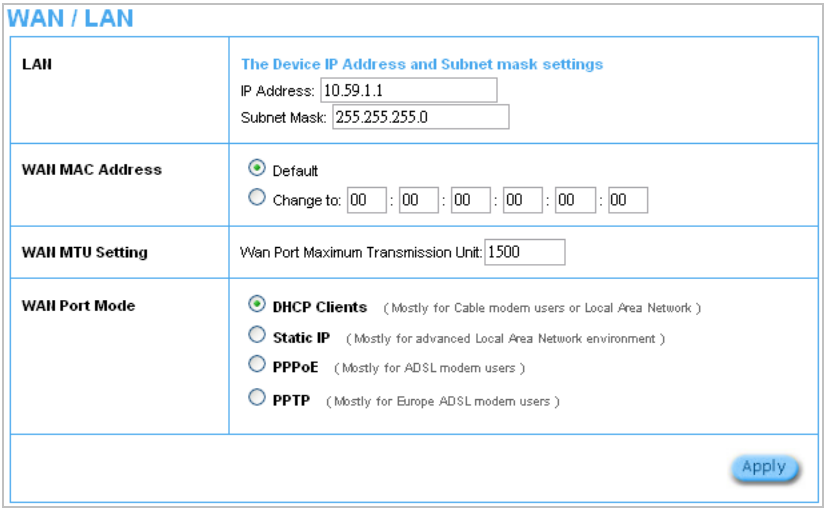

WAN / LAN
LAN
The Device IP Address and Subnet mask settings
IP Address: 10.59.1.1
Subnet Mask: 255.255.255.0
WAN MAC Address
Default
Change to: 00 : 00 : 00 : 00 : 00 : 00
WAN MTU Setting
Wan Port Maximum Transmission Unit: 1500
WAN Port Mode
DHCP Clients (Mostly for Cable modem users or Local Area Network)
Static IP (Mostly for advanced Local Area Network environment)
PPPoE (Mostly for ADSL modem users)
PPTP (Mostly for Europe ADSL modem users)
Apply

Figure 89 WAN/LAN Setting Screen

Apply *Click **Apply** button to save the new settings.*

Click **Apply** button, then Restart dialog box will appear. Click **Apply** to restart the system.

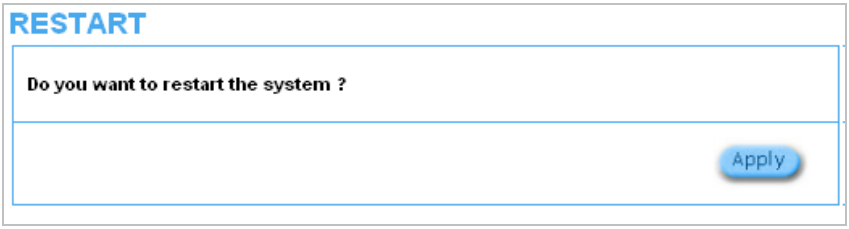


Figure 90 Restart Dialog Box

- **Device IP (LAN IP) Setting**

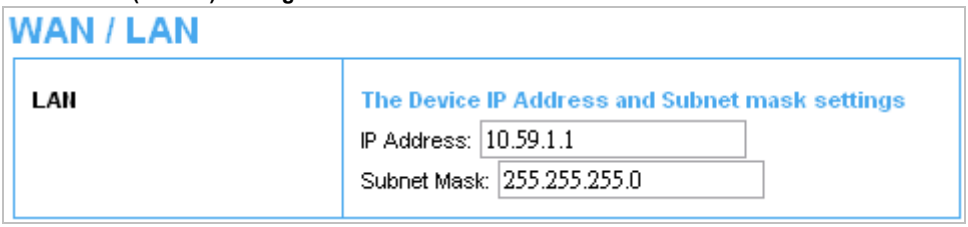


Figure 91 Device IP (LAN IP) Setting

Item	Default	Description
IP Address	10.59.1.1	The internal LAN IP address of your Wireless Subscriber Server Gateway.
Subnet Mask	255.0.0.0	Enter the subnet mask for the IP address.

- **WAN MAC Address**

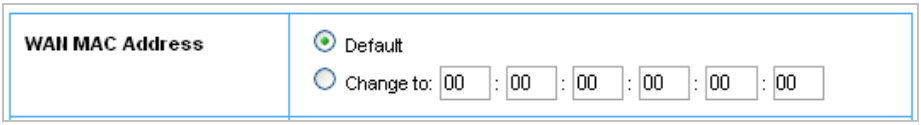


Figure 92 WAN MAC Address Setting

Item	Description
IP Address	The default MAC address is set to the WAN physical interface on device.

- **WAN Port Mode**

WAN Port Mode
DHCP Clients (Mostly for Cable modem users or Local Area Network
Static IP (Mostly for advanced Local Area Network environment)
PPPoE (Mostly for ADSL modem users)
PPTP (Mostly for Europe ADSL modem users)

Figure 93 WAN Port Mode Setting

DHCP Client

The device can work as a DHCP client. This allows the device to obtain the IP address and other TCP/IP settings from your ISP. If your xDSL/Cable comes with this feature, please enable Use DHCP Client.

Figure 94 DHCP Client Setting Screen

Static IP

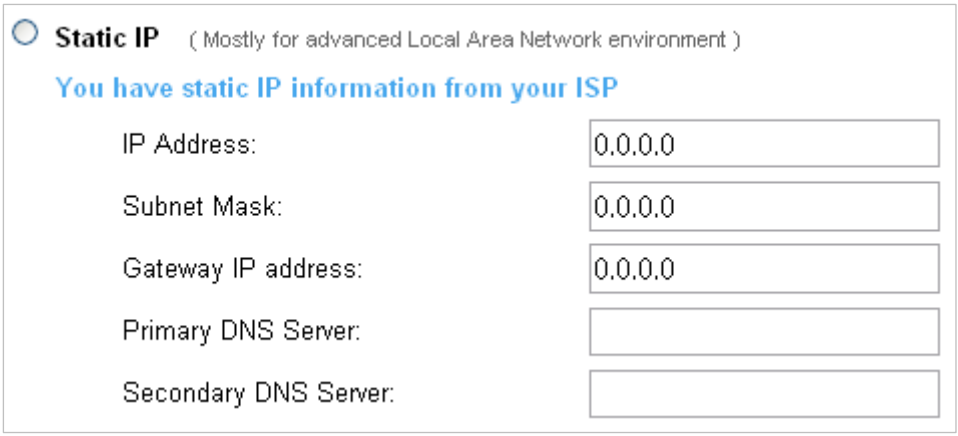


Figure 95 Static IP Setting Screen

Item	Description
IP Address	Enter the IP address for the xDSL/Cable connection (provided by your ISP).
Subnet Mask	Enter the subnet mask for the IP address.
Gateway IP Gateway	Enter the Gateway IP address for the xDSL/Cable connection (provided by your ISP).
Primary DNS Server	A primary DNS server IP address for the xDSL/Cable connection (provided by your ISP).
Secondary DNS Server	A secondary DNS server IP address for the xDSL/Cable connection (provided by your ISP). If the primary DNS Server IP were not available, meanwhile, Secondary DNS Server IP would start in the same time.

PPPoE

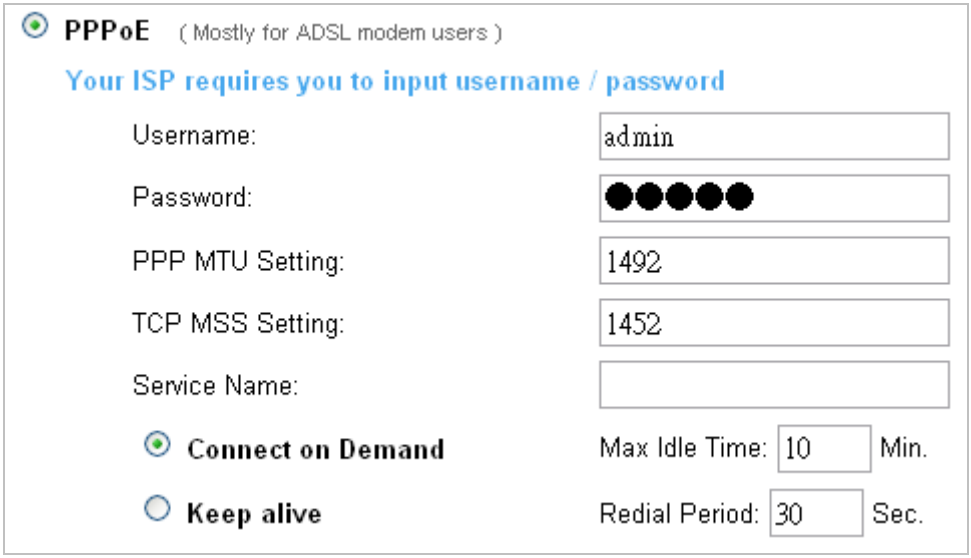


Figure 96 PPPoE Setting Screen

Item	Default	Description
User Name	Empty	Enter your PPPoE account name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter your PPPoE password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1492	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1452	MSS (Maximum Segment Size) specifies maximum segment size.

Item	Default	Description
Service Name	Empty	Enter the service name provided by your ISP. The service name can consist of up to 64 alphanumeric characters and is case sensitive.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your Wireless Subscriber Gateway to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your Wireless Subscriber Gateway to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

PPTP

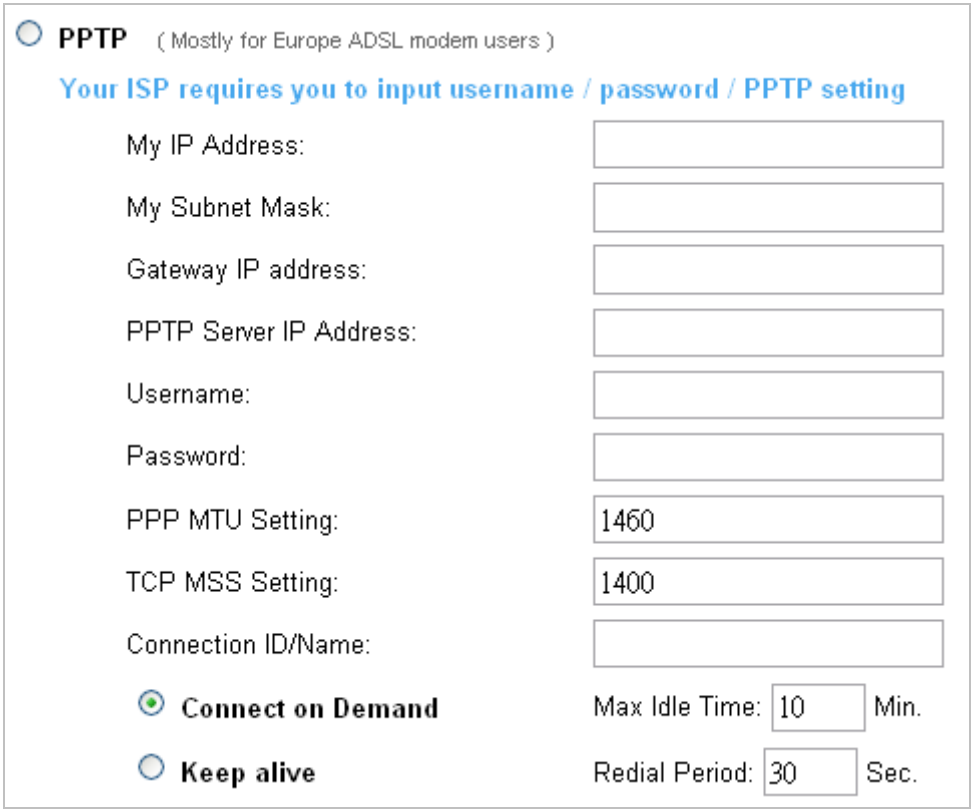


Figure 97 PPTP Setting Screen

Item	Default	Description
My IP Address	Empty	A PPTP local IP address for the xDSL/Cable connection (provided by your ISP).
My Subnet Mask	Empty	Enter the PPTP local IP address for the xDSL/Cable connection.
Gateway IP Address	Empty	A PPTP local default gateway for the xDSL/Cable connection (provided by your ISP).
PPTP Server IP Address	Empty	Enter the PPTP server IP address for the xDSL/Cable connection (provided by your ISP).
Username	Empty	Enter your PPTP account name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.

Item	Default	Description
Password	Empty	Enter your PPTP password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1460	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1400	MSS (Maximum Segment Size) specifies maximum segment size.
Connection ID/Name	Empty	Enter the connection ID or connection name. The connection ID/Name can consist of up to 81 alphanumeric characters and is case sensitive.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your Wireless Subscriber Gateway to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your Wireless Subscriber Gateway to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPTP enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.

3-2-4-3 ***Server***

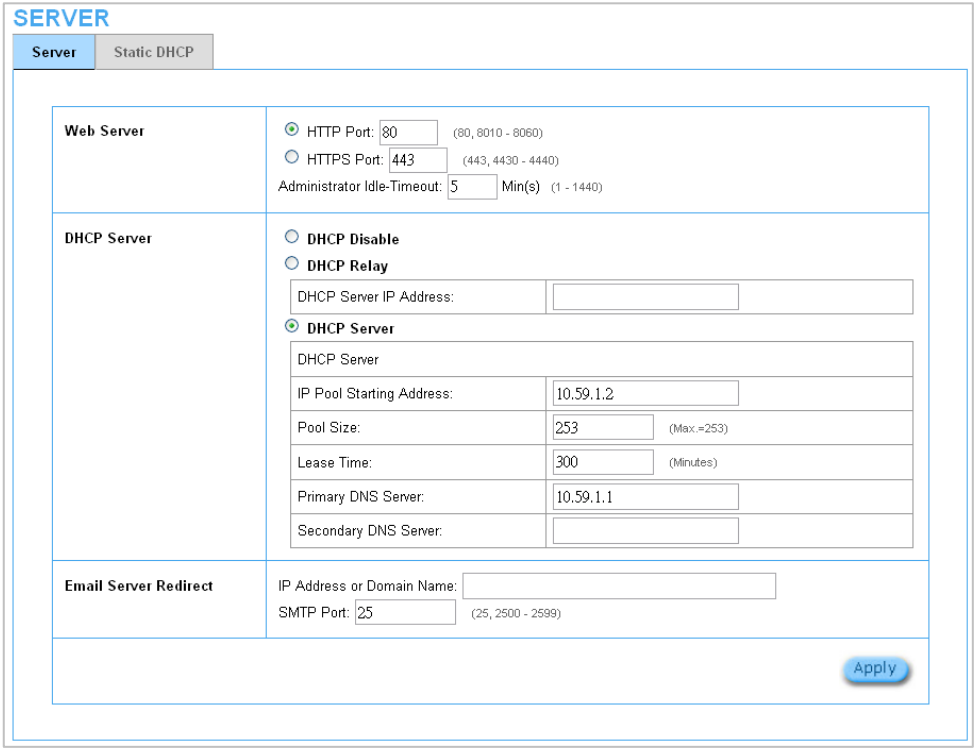


Figure 98 Server Setting Screen

Item	Default	Description
Web Server		
HTTP Port	80	Enter the HTTP port number. The HTTP port allowed range is 80 or 8010 to 8060. For access the Wireless Subscriber Gateway system under NAT, please tab the “http://HTTP Port IP Address: Port Number”.
HTTPS Port	443	Enter the HTTPS port number. The HTTPS port allowed range is 443 or 4430 to 4440. For access the Wireless Subscriber Gateway system, please tab the “https://HTTPS Port IP Address: Port Number”.
Administrator Idle-Timeout	5 Minutes	The idle time out valid range is 1-1440. If the idle time out is set as 5 minutes, it means if the administrator doesn’t send packet in 5 minutes, the administrator will logout automatically.

Item	Default	Description
DHCP Server	Enable	There are three types of DHCP Services. DHCP Disable—Disable the DHCP server function. DHCP Relay—Enable DHCP Relay function. DHCP Server—Enable DHCP server function.
DHCP Relay	To route DHCP through an external server, the administrator needs to enable the DHCP relay and assign a valid DHCP server IP address.	
DHCP Server IP Address	Empty	Enter the IP address of DHCP server.
DHCP Server	The Wireless Subscriber Gateway's DHCP server is turned on and running by default when you install it in your network.	
DHCP Pool Starting Address	10.59.1.2	Enter the DHCP Pool Starting IP address.
Pool Size	253	The DHCP pool size range is 1 to 512.
Lease Time	300 Minutes	The DHCP lease time. The DHCP lease time range is 1 to 71582788 minutes.
Primary DNS Server	168.95.1.1	Enter the IP address of the network's primary DNS server.
Secondary DNS Server	Empty	Enter the IP address of a second DNS server on the network.
Email Server Redirect	To prevent some subscriber's original Email server may protect by firewall or NAT network. Wireless Subscriber Gateway provides an extra Email server parameter to forward the subscriber's Email. The Wireless Subscriber Gateway not only forwards the subscribers' E-mail via other E-mail server but also changes the SMTP header. The recipient of your E-mail sees the message as if you sent it from your local Internet Service Provide, not form the hotel or other place. Note: Before setting this sever, please make sure the e-mail sever relay function is opened. It must not exceed 50 characters.	
IP Address or Domain Name	Empty	Enter the E-mail server IP address or domain name.
SMTP Port	25	Enter the SMTP port number for mail server. The SMTP port allowed range is 25 or 2500 to 2599.

*Click **Apply** button to save the new settings.*

Static DHCP

This function allows subscriber to assign IP address on the LAN to specific individual computers based on their MAC Address.

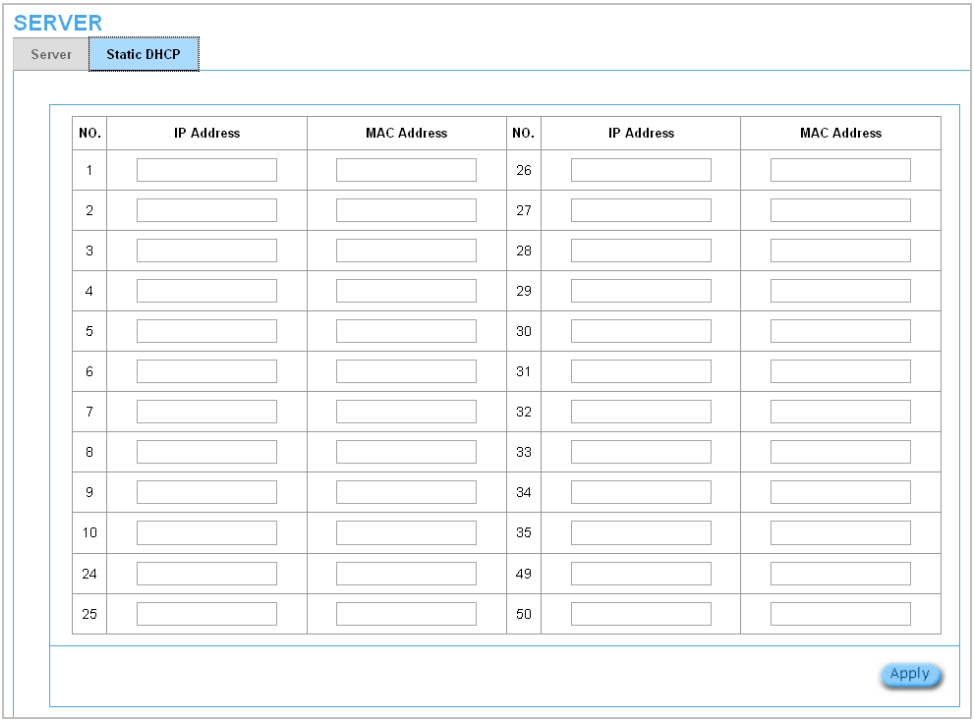


Figure 99 Server Setting Screen

Item	Default	Description
IP Address	Empty	Enter the IP address that subscriber want to assign to the computer on LAN with the MAC address the subscriber will also specify
MAC Address	Empty	Enter the MAC address of a computer on your LAN

*Click **Apply** button to save the new settings.*

3-2-4-4 Keypad

Figure 100 Keypad Setting Screen

Item	Default	Description
Use for Pre-Paid Billing	The system provides ten user definable hot keys through the use of the + Key plus the 1 through 0 keys across the top of the keypad.	
Keypad Hot Key	+1~+0	It is the combination hot key for keypad application.
Billing Profile	-	Select the billing profile you want to assign to the combination hot key.
Use for Post-Paid Billing	Define the basic rate of accounts.	
Base on ~	Minutes	Select the billing unit by clicking in the list box.
Charge by levels	Enable	Enables or disables the charge by levels function.
Level (1~10)	1~10	This field displays the level number of charge rate.
Time Range	0	Enter the number.
Unit Price	-	Enter the amount of charge level.

Please follow steps below to create accounts using keypad function.

● **Use for Pre-Paid Billing**

Step 1: Click the Billing in the Advanced Setup menu, select enable Pre-Paid, click **Apply**.

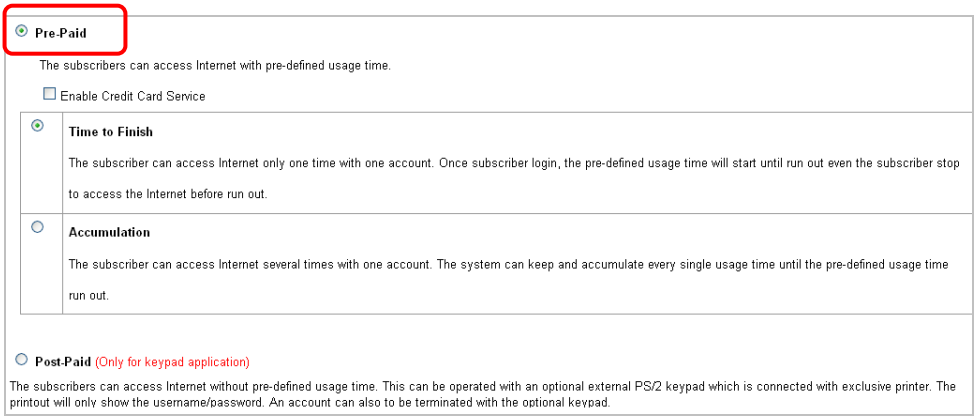

Pre-Paid
The subscribers can access Internet with pre-defined usage time.
Enable Credit Card Service
Time to Finish
The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.
Accumulation
The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.
Post-Paid (Only for keypad application)
The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad which is connected with exclusive printer. The printout will only show the username/password. An account can also to be terminated with the optional keypad.

Figure 101 Billing Setting Screen

Step 2: Click the Keypad in Advanced Setup Menu, define the Billing plan of pre-paid, and click **Apply**.

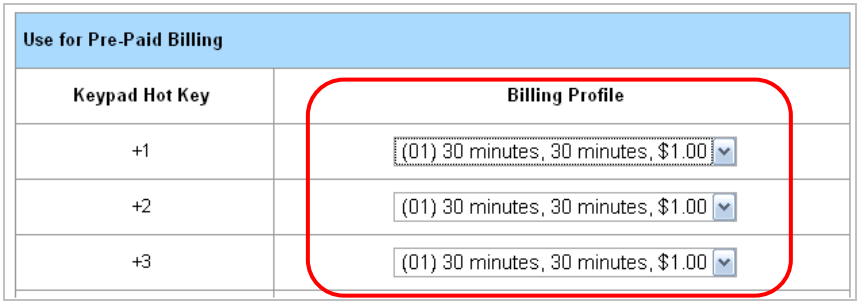


Figure 102 Keypad's Hot Key Setting Screen

Step 3: You can use keypad to create subscriber accounts now. Press keypad hot key and then press **Enter**. A new subscriber account is generated, and the account information should be printed.

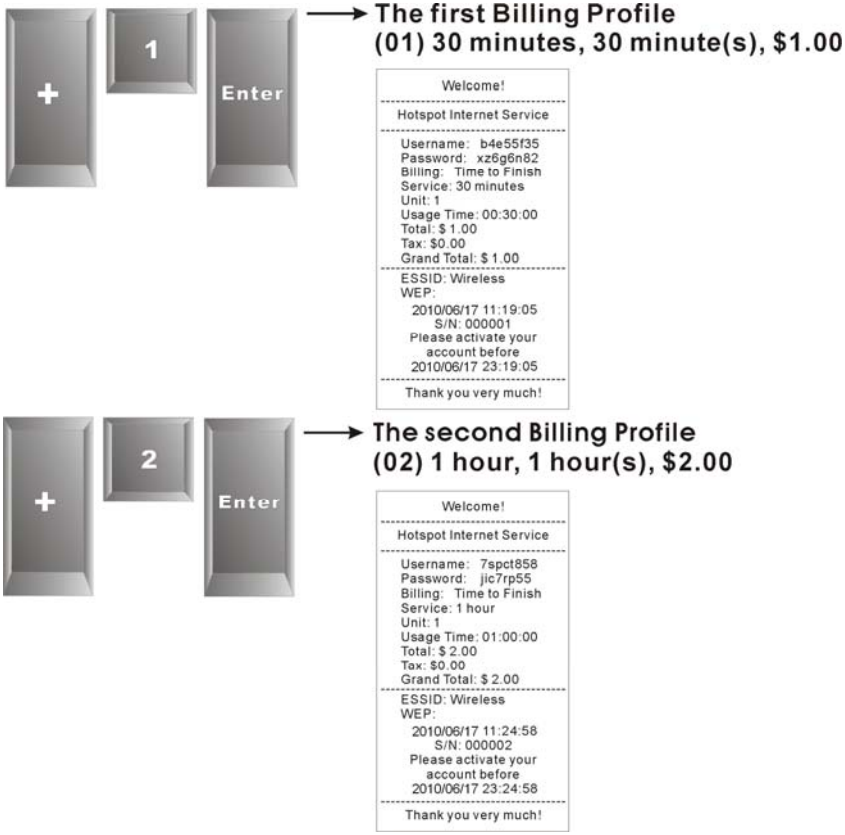


Figure 103

Step 4: Subscriber can use this account to access Internet now.

● **Use for Post-Paid Billing**

Step 1: Click the Billing in the Advanced Setup menu, select enable Post-paid, click **Apply**.

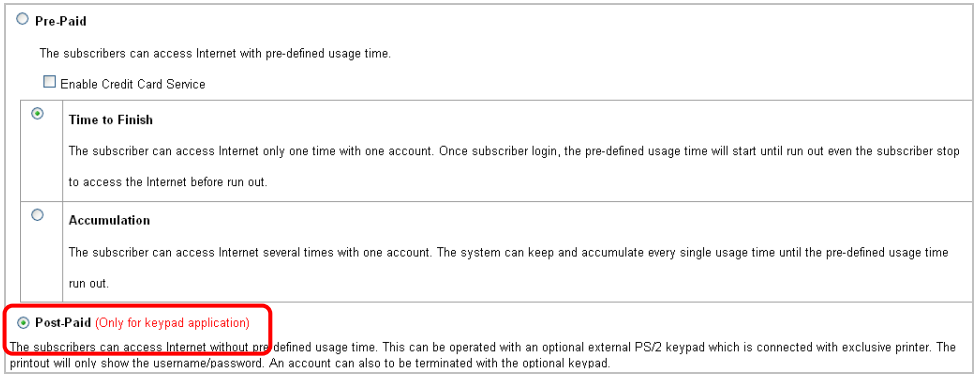

Pre-Paid
The subscribers can access Internet with pre-defined usage time.
Enable Credit Card Service
Time to Finish
The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.
Accumulation
The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.
Post-Paid (Only for keypad application)
The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad which is connected with exclusive printer. The printout will only show the username/password. An account can also to be terminated with the optional keypad.

Figure 104 Billing Setting Screen

Step 2: Click the Keypad in Advanced Setup Menu, Define the billing plan of post-paid, click **Apply**.

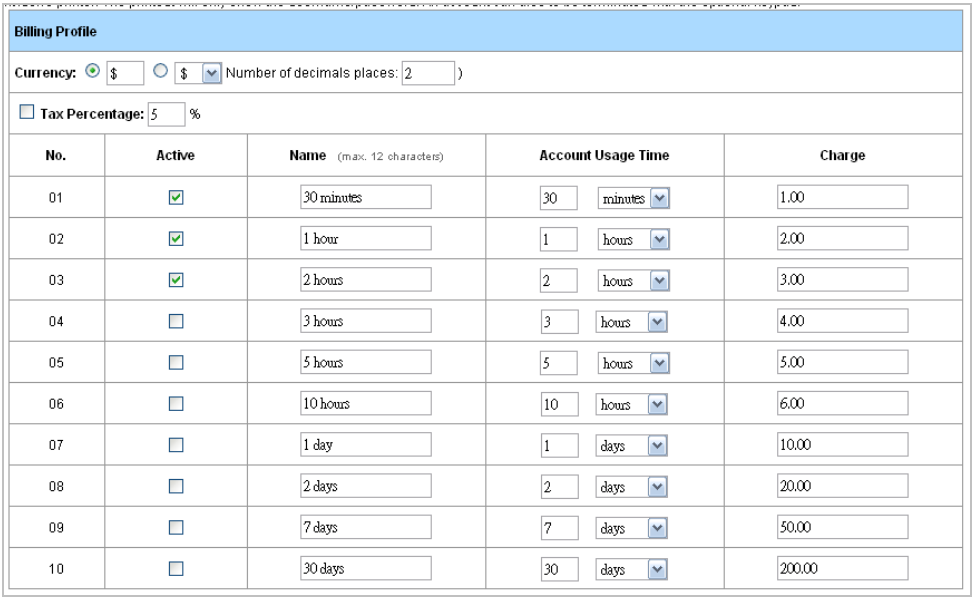

Billing Profile
Currency: $ $ Number of decimals places: 2)
Tax Percentage: 5 %
No. Active Name (max. 12 characters) Account Usage Time Charge
01 30 minutes 30 minutes 1.00
02 1 hour 1 hours 2.00
03 2 hours 2 hours 3.00
04 3 hours 3 hours 4.00
05 5 hours 5 hours 5.00
06 10 hours 10 hours 6.00
07 1 day 1 days 10.00
08 2 days 2 days 20.00
09 7 days 7 days 50.00
10 30 days 30 days 200.00

Figure 105 Keypad's Hot Key Setting Screen

Step 3: You can use keypad to create subscriber accounts now. Press **/ Enter**, a new subscriber account is generated, and the account information should be printed. This account information is including serial number, username, password and account create time.

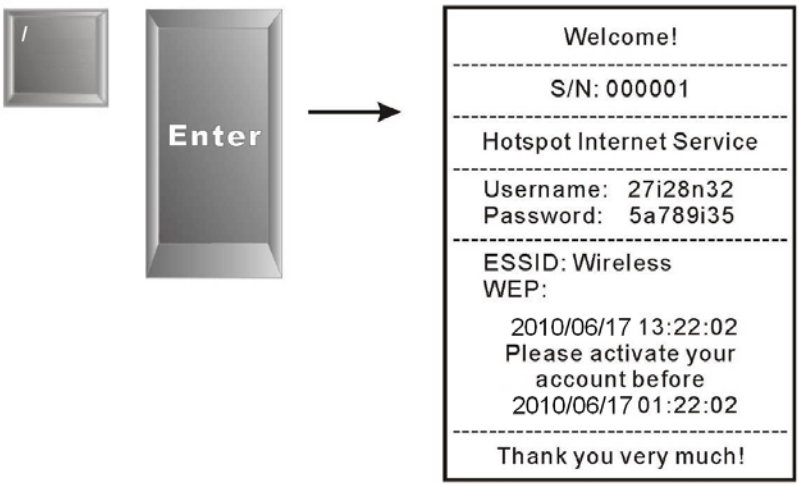


Figure 106

Step 4: When subscriber wants to terminate the Internet service, press" **-** ", **serial number** and then press **Enter**, a bill should be printed.

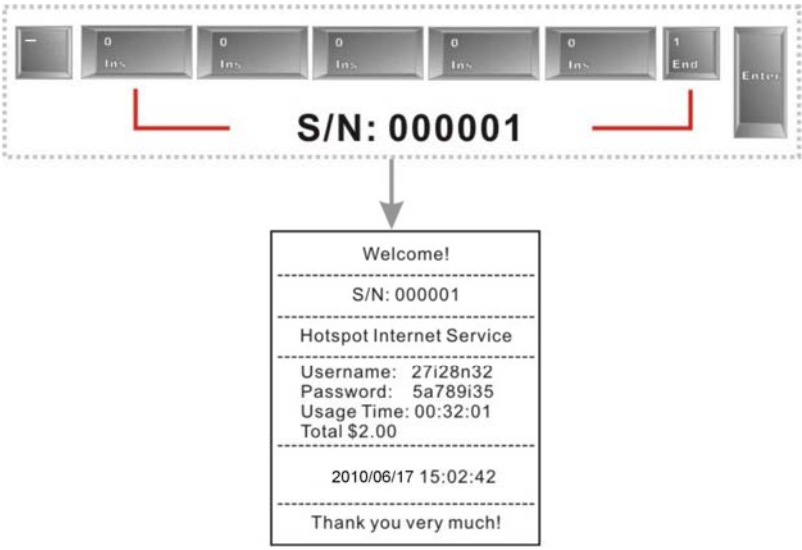


Figure 107

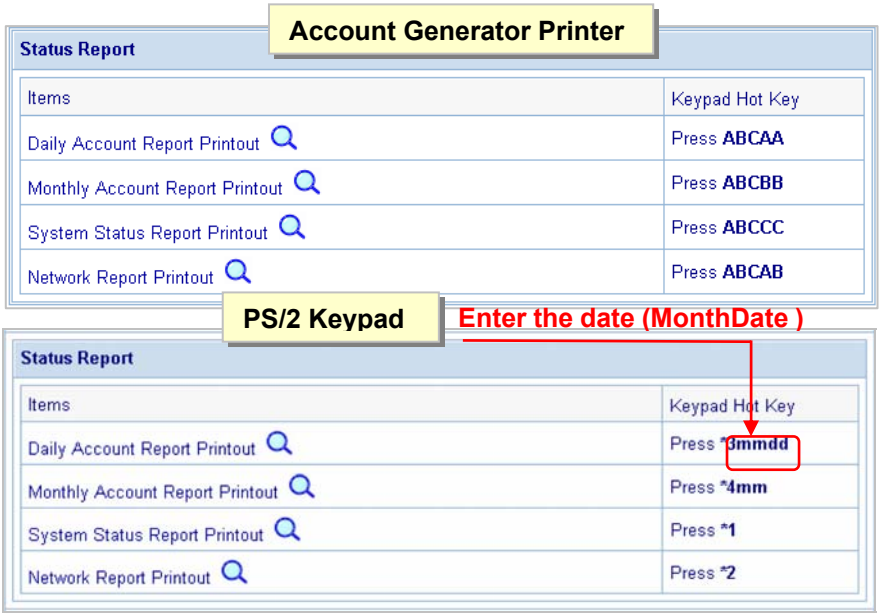


Figure 108 Keypad's Hot Key List

- **Daily Account Report Printout**

Press ABCAA

B: Billing Profile
UN: Purchase Unit

Figure 109 Daily Account

- **Monthly Account Report Printout**

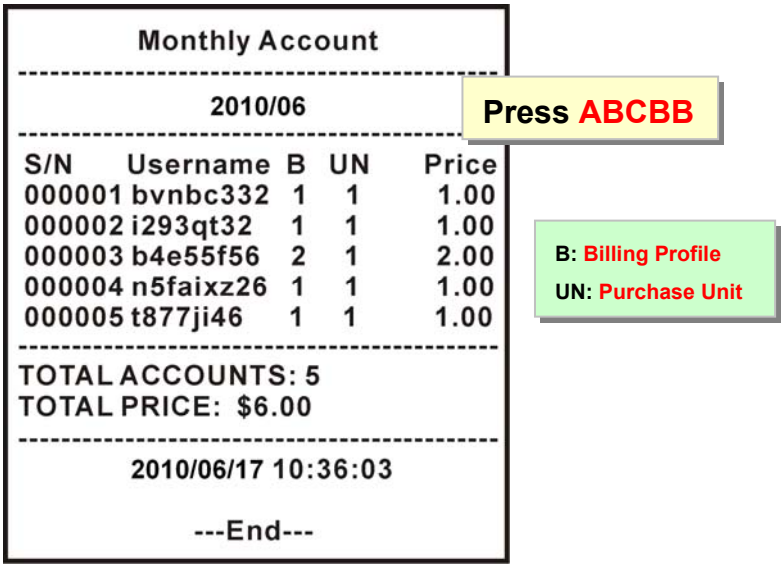


Figure 110 Monthly Account

- **System Status Report Printout**

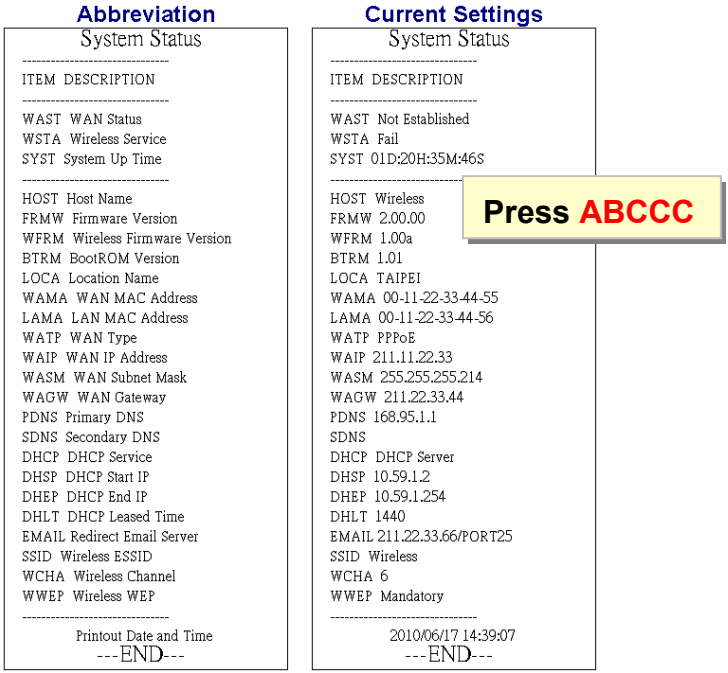


Figure 111 System Status Report Printout

- **Network Report Printout**

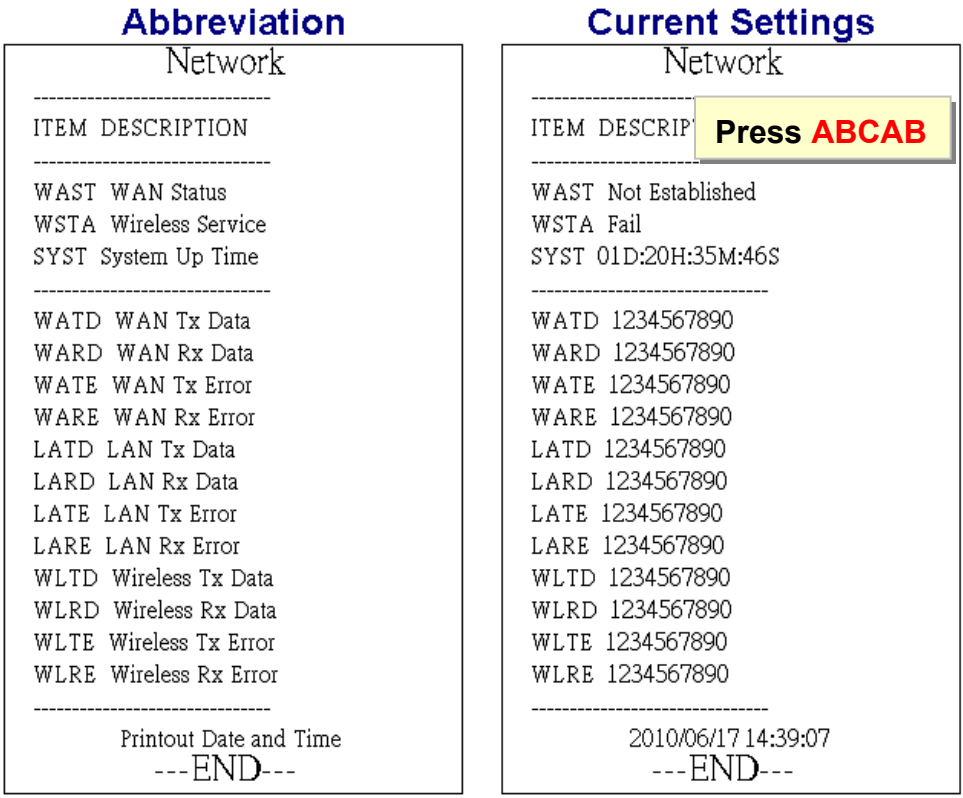


Figure 112 Network Report Printout

3-2-4-5 Customization

- **Login Page**

The Wireless Subscriber Gateway provides three different login page formats, including standard, redirect, advanced and frame format.

Standard

For some service providers, they may hope to have a customize subscriber's login page to the users. This function helps them to realize the ideal. The page elements are including login page title, background color, subtitle etc.

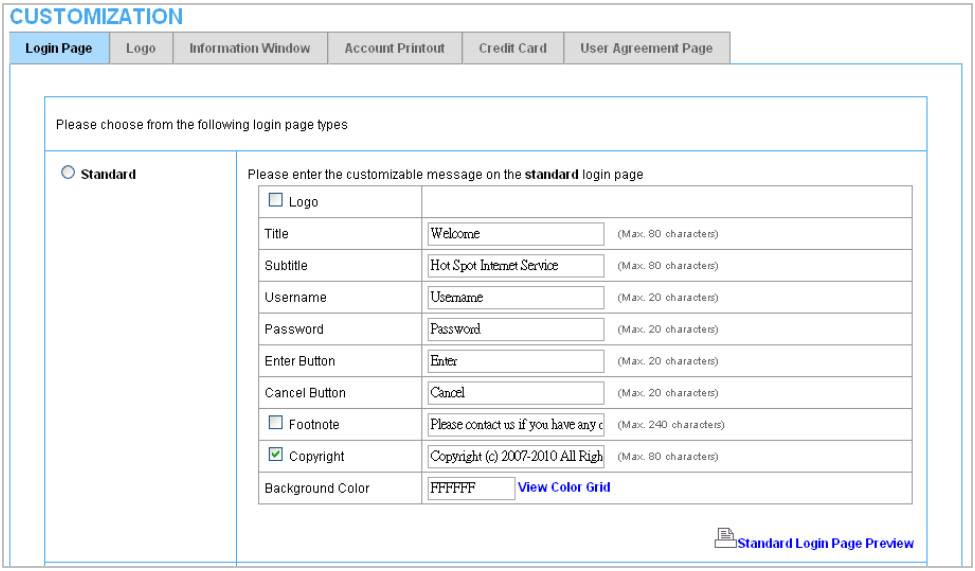


Figure 113 Standard Login Page Customization Setting Screen

Item	Default	Description
Logo	Disable	Select the check box to display service provider's logo.
Title	Welcome	Enter the title name of subscriber login page. The maximum allowed characters length is 80.
Subtitle	Hot Spot Internet Service	Enter the subtitle name of subscriber login page. The maximum allowed characters length is 80.
Footnote	Disable	Allow the administrator to input the footnote such like "Pleas Contact to our Customer Service Center, EXT 141". The maximum character of the footnote is 240.

Item	Default	Description
Copyright	Enable	The copyright is allowed the administrator to input a paragraph in the subscriber login page for copyright information. The maximum character of the copyright is 80.
Background Color	FFFFFF	The background text color can be specified color. For the specified text color format please views the color grid. The allowed format is Hexadecimal.

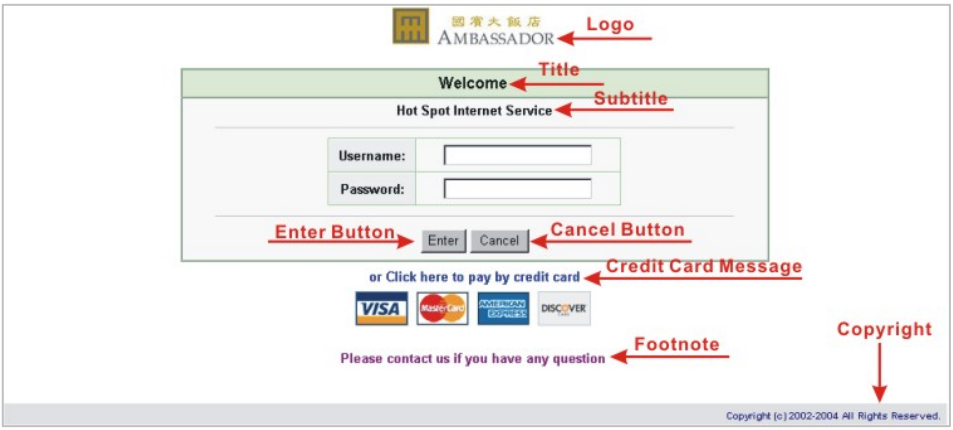


Figure 114 Login Page Screen

Before you add logo to the login page, please make sure the logo image file is defined. For details, see section 3-2-10 Customization->Logo

Figure 115 Error Dialog Box

Redirect

This allow service provider to redirect the subscriber's browser to a specified home page.

Figure 116 Redirect Login Page Setting Screen

Copy and paste the following HTML Code into your home page to produce redirect subscriber login page.

Redirect Login Page Code

```
<html>
<body style="font-family: Arial" bgcolor="#FFFFFF">
<form method="post" action="http://1.1.1.1/login.cgi" name="apply">
<div align="center">
<table cellSpacing="0" cellPadding="0" width="50%" borderColorLight="#8e8e8e" border="1">
<tr>
<td align="center" width="100%" bgColor="#8e8e8e" height="24">
<font face="Arial, Helvetica, sans-serif" size="2" color="#FFFFFF"><b>Welcome</b></font>
</td>
</tr>
<tr>
<td align="center"> <table cellSpacing="0" cellPadding="4" width="100%" bgColor="#FFFFFF"
border="0"> <tr>
<td align="right" width="35%" style="font-family: Arial, Helvetica, sans-serif; font-size: 12pt">
<font color="#000000" size="2"><b>Username:</b></font>
</td>
<td width="65%">
<input type="text" name="username" size="25">
</td>
</tr>
<tr>
<td align="right" width="35%" style="font-family: Arial, Helvetica, sans-serif; font-size: 12pt">
<font color="#000000" size="2"><b>Password:</b></font>
</td>
<td width="65%">
<input type="password" name="password" size="25">
</td>
</tr>
<tr>
<td align="center" width="100%" style="font-family: Arial; font-size: 12pt" bgcolor="#F7F7F7"
colspan="2">
<input type="submit" name="apply" value="Enter" style="font-family: Arial">
<input type="reset" name="clear" value="Clear" style="font-family: Arial">
</td>
</tr>
</table>
</td>
</tr>
</table>
</div>
</form>
</body>
</html>
```

Close

Figure 117 Redirect Login Page Code Screen

Advanced

This function allow user to design login page of Wireless Subscriber Gateway.

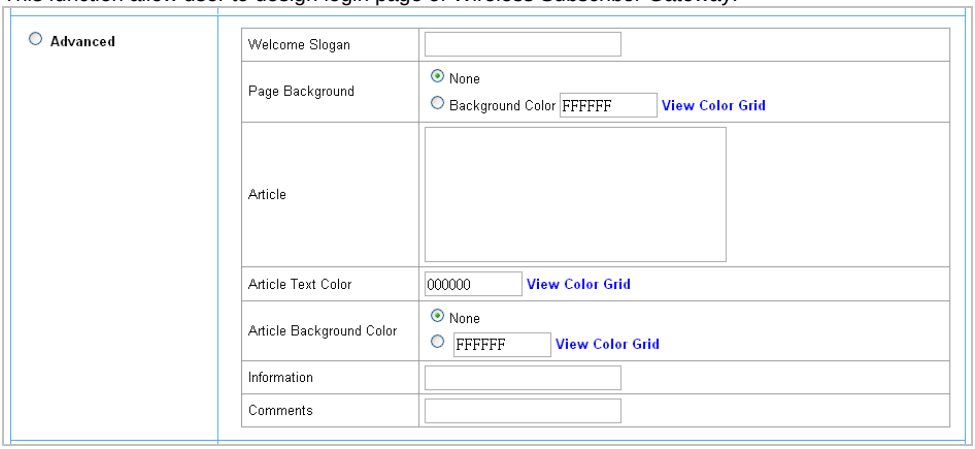


Figure 118 Advanced Login Page Setting Screen

Item	Default	Description
Welcome Slogan	Welcome	The maximum allowed characters length is 80.
Page Background	None	The page background can be none or specified color. For the background color format please views the color grid. The allowed format is Hexadecimal.
Article	Empty	The article is allowed the administrator to input a paragraph in the subscriber login page for advisement or announcement. The maximum character of the article is 1024.
Article Text Color	000000	The article text color can be specified color. For the specified text color format please views the color grid. The allowed format is Hexadecimal.
Article Background Color	None	The article background can be specified color. For the background color format please views the color grid. The allowed format is Hexadecimal.
Information	Empty	Allow the administrator to input the text information such like address, telephone number and fax information. The maximum character of the information is 80.
Comments	Empty	Allow the administrator to input the text comments such like “Pleas Contact to our Customer Service Center, EXT 141”. The maximum character of the comment is 80.

Figure 119 Color Gird

Frame

If “Frame” is selected the subscriber login page will be separate into Top Frame and Bottom Frame. Bottom Frame is a default format for username and password input, Top Frame is allowed to be specified a URL to link.

Figure 120 Frame Login Page Setting Screen

Item	Default	Description
Top Frame URL Link	Empty	The input format can be http://www.yahoo.com. The maximum character of the URL Link is 200.
Bottom Frame	-	This frame will show the standard login page.

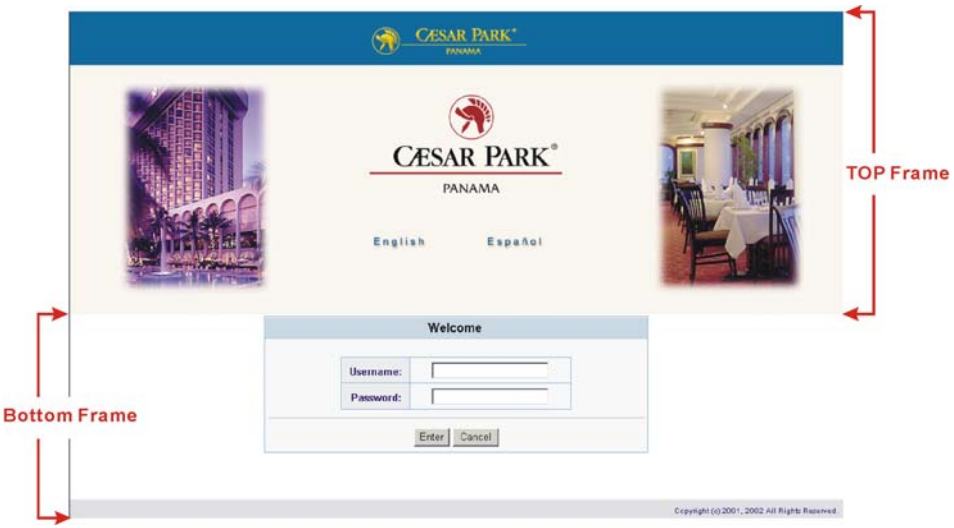


Figure 121 Example-Login Page Screen

- **Logo**

This function allows service provider to upload the customer's logo image file which can be shown on the standard login page and account printout of PC-connected printer.

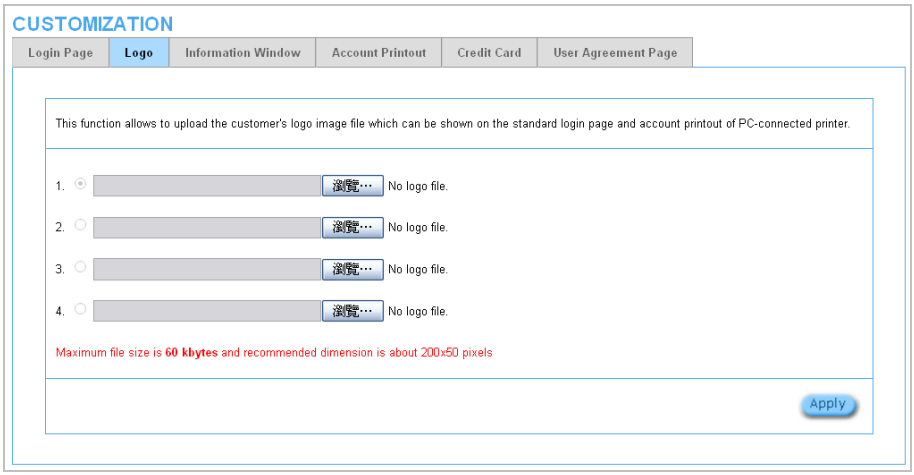

CUSTOMIZATION
Login Page
Logo
Information Window
Account Printout
Credit Card
User Agreement Page
This function allows to upload the customer's logo image file which can be shown on the standard login page and account printout of PC-connected printer.
1. 瀏覽... No logo file.
2. 瀏覽... No logo file.
3. 瀏覽... No logo file.
4. 瀏覽... No logo file.
Maximum file size is 60 kbytes and recommended dimension is about 200x50 pixels
Apply

Figure 122 Logo Setting Screen

Item	Default	Description
File Path	Empty	Enter the file pathname of the logo file in the File Path field.
Apply	Click **Apply** button to save the logo file to system.	
Delete	Click **Delete** button to delete the logo file.	

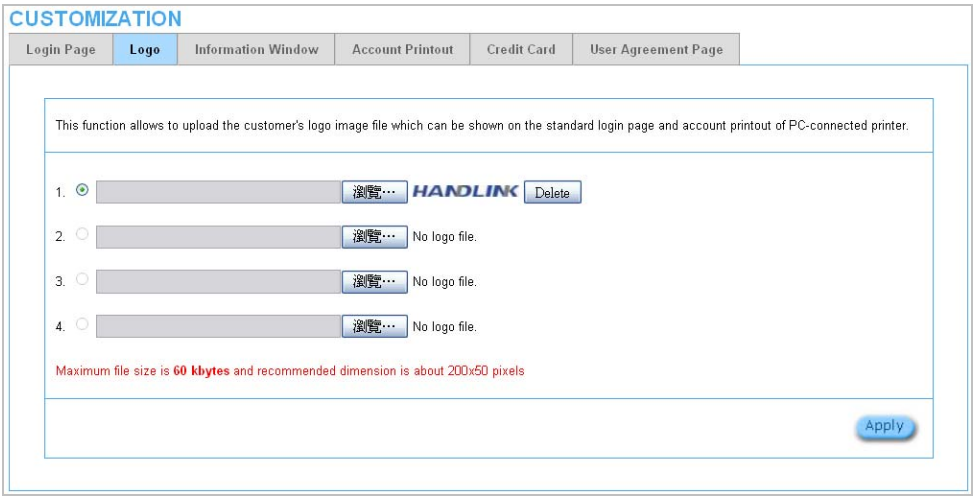


Figure 123 Logo Setting Screen

Figure 124 Login Page

Information Window

This function allow service provider can decide whether they want an “Information Window” pop-up on subscriber PC when authenticate successful or not and specified text of information window. Subscriber can type “http://1.1.1.1/info” to open the information window again or enter “http://1.1.1.1/logout” to logout immediately if accumulation billing selected.

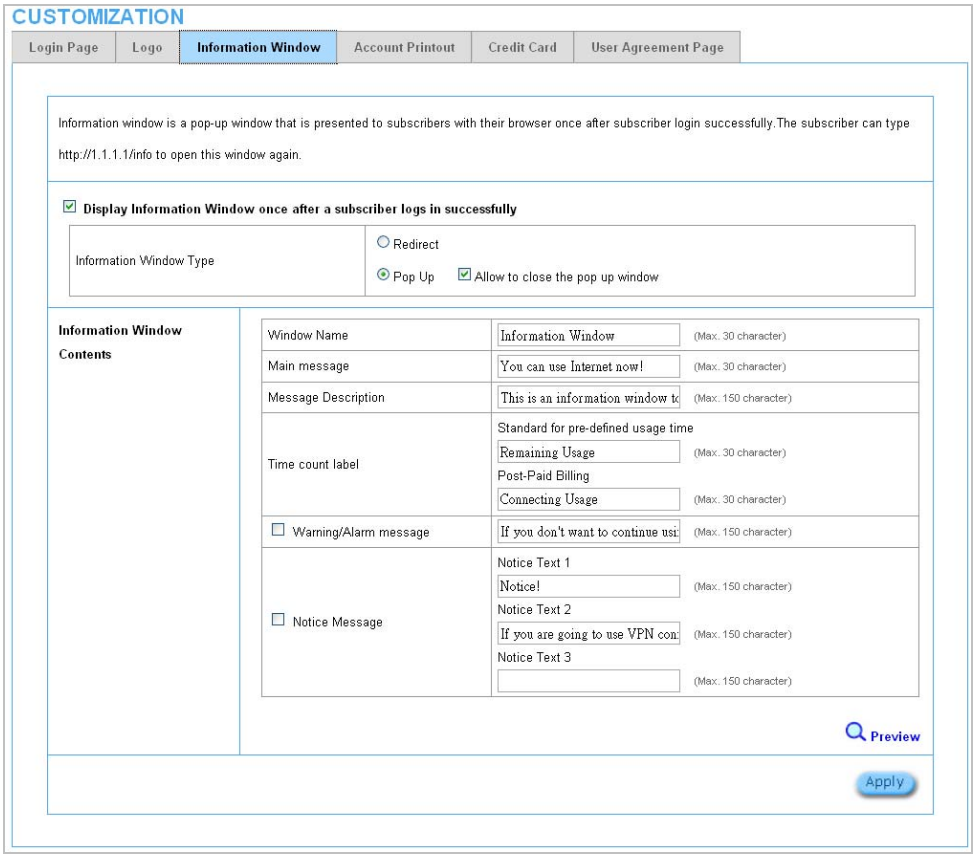


Figure 125 Example-Login Page Screen

Information Window
Window Name
You can use Internet now!
Main message
This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection.
Message Description
Remaining Usage
HH:MM:SS
Time count label
If you don't want to continue using Internet, please remember to logout. Just click the Logout button.
Warning/Alarm message
Notice!
If you are going to use VPN connection now, please close the message window before you run VPN connection.
Notice Message
Replenish
Logout

Figure 126 Example-Login Page Screen

Billing Type=Time to Finish

Can be replenished by subscriber=Disable

Information Window
You can use Internet now!
This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection.
Remaining Usage
HH:MM:SS
If you don't want to continue using Internet, please remember to logout. Just click the Logout button.
Notice!
If you are going to use VPN connection now, please close the message window before you run VPN connection.

Figure 127 Information Window

Billing Type=Time to Finish

Can be replenished by subscriber=Enable

Information Window
You can use Internet now!
This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection.
Remaining Usage
HH:MM:SS
If you don't want to continue using Internet, please remember to logout. Just click the Logout button.
Notice!
If you are going to use VPN connection now, please close the message window before you run VPN connection.
Replenish

Figure 128 Information Window

Billing Type=Accumulation

Can be replenished by subscriber=Disable

Information Window
You can use Internet now!
This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection.
Remaining Usage HH:MM:SS
If you don't want to continue using Internet, please remember to logout. Just click the Logout button.
Notice!
If you are going to use VPN connection now, please close the message window before you run VPN connection.
Logout

Figure 129 Information Window

Billing Type=Accumulation

Can be replenished by subscriber=Enable

Information Window
You can use Internet now!
This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection.
Remaining Usage HH:MM:SS
If you don't want to continue using Internet, please remember to logout. Just click the Logout button.
Notice!
If you are going to use VPN connection now, please close the message window before you run VPN connection.
Replenish
Logout

Figure 130 Information Window

Account Printout

This function allow service provider to specified text of account printout.

Figure 131 Account Printout Customization Setting Screen

*Click **Apply** button to save the new settings.*

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Account Printout Customization setting screen.

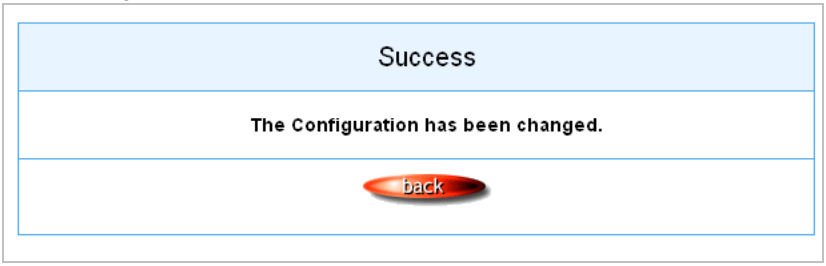


Figure 132 Success Dialog Box

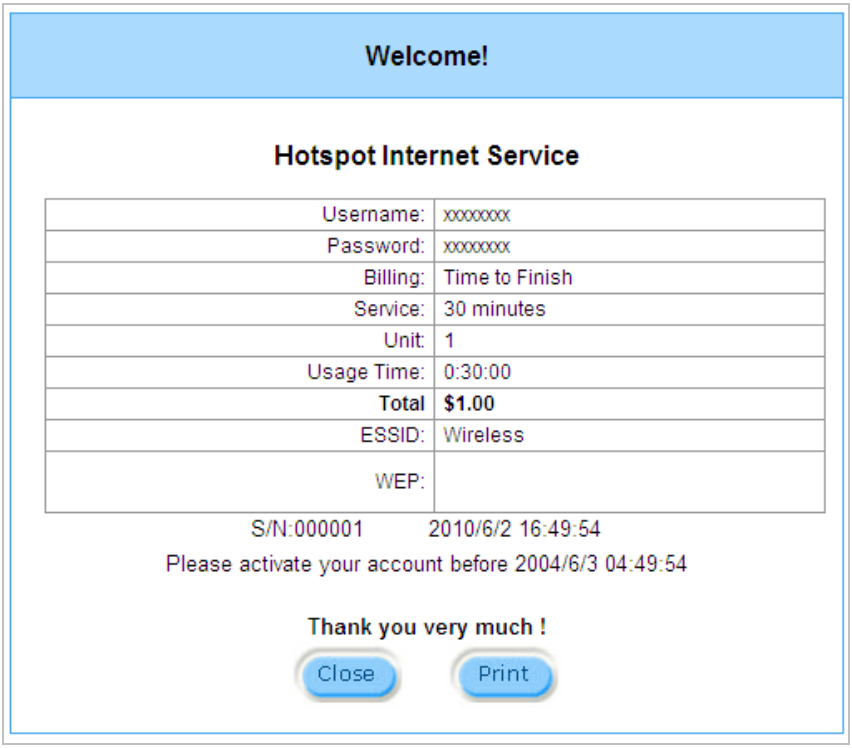


Figure 133 PC-connected Printer Printout

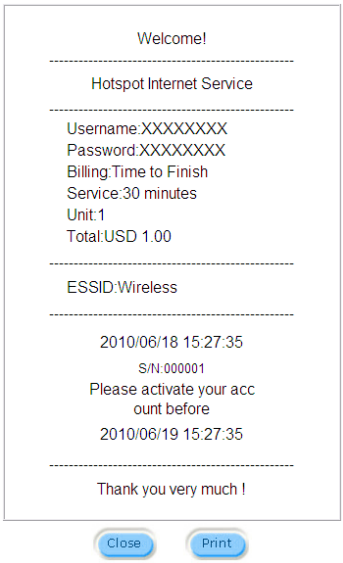


Figure 134 Account Generator Printer Printout

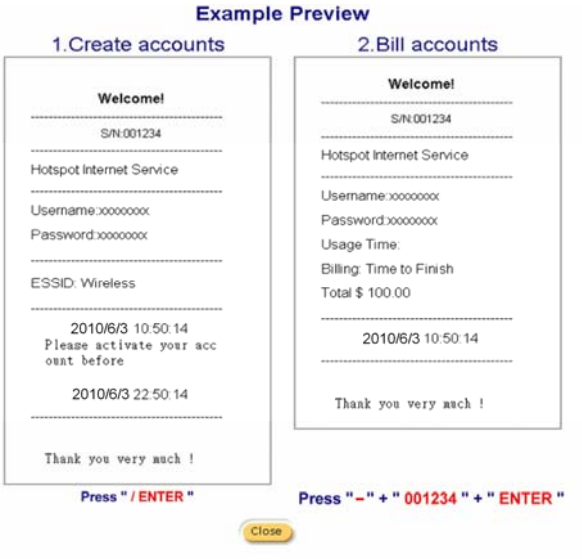


Figure 135 Account Generator Printer Printout

Credot

Standard Login Page

This function allow service provider to customize the additional credit card message for the standard login page.

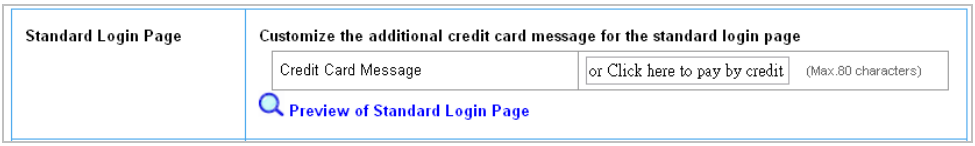

Standard Login Page
Customize the additional credit card message for the standard login page
Credit Card Message
or Click here to pay by credit
(Max.80 characters)
Preview of Standard Login Page

Figure 136 Credit Customization Setting Screen

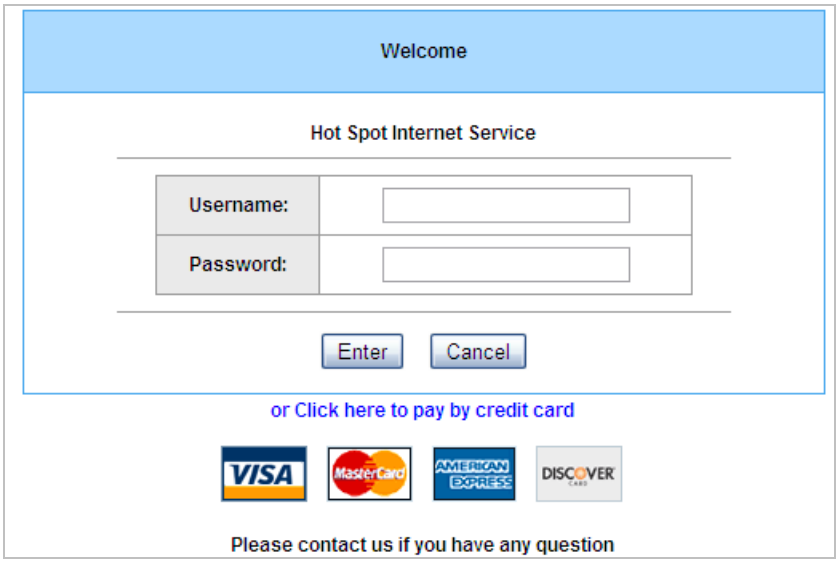


Figure 137 Standard Login Page(Enable Credit Card Service=enable)

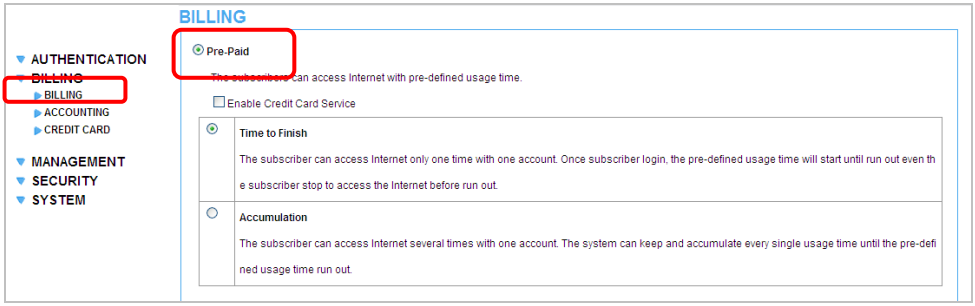

AUTHENTICATION
BILLING
BILLING
ACCOUNTING
CREDIT CARD
MANAGEMENT
SECURITY
SYSTEM
BILLING
Pre-Paid
Enable Credit Card Service
Time to Finish
The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even th
e subscriber stop to access the Internet before run out.
Accumulation
The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defi
ned usage time run out.

Figure 138 Billing Setting Scree

Service Selection Page

This function allow service provider to customize the additional credit card message for the standard login page.

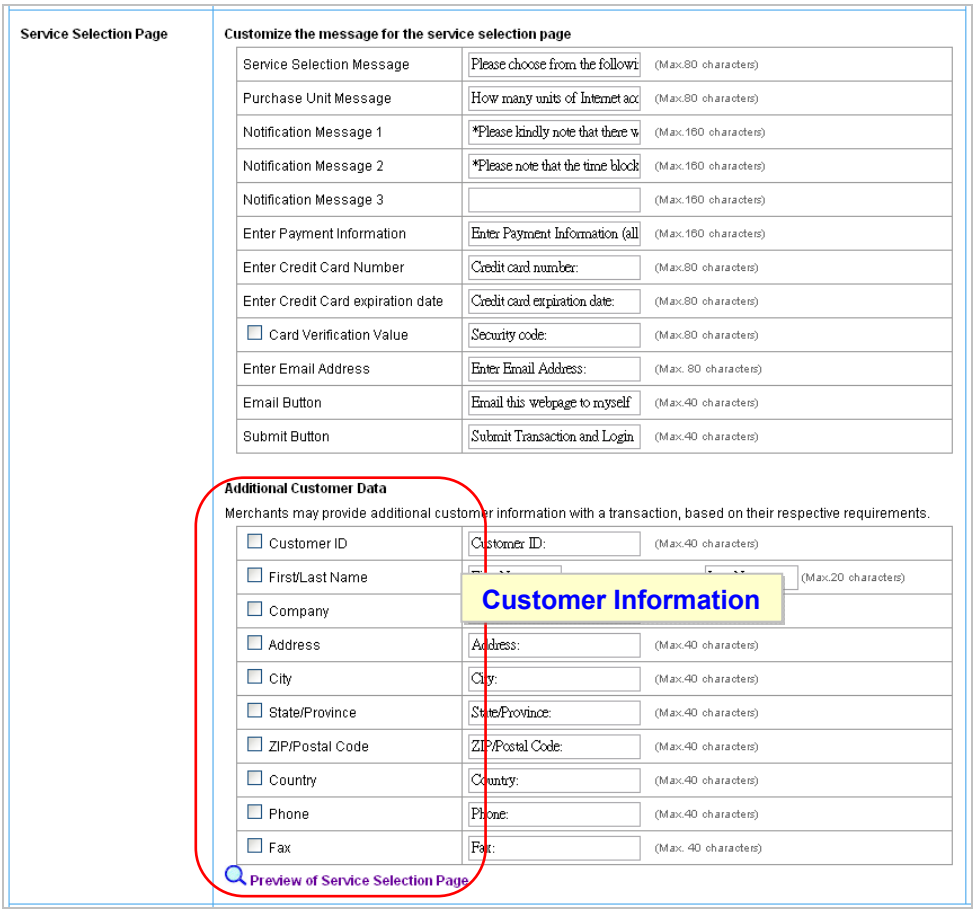


Figure 139 Service Selection Page Setting Screen(Authorize.net)

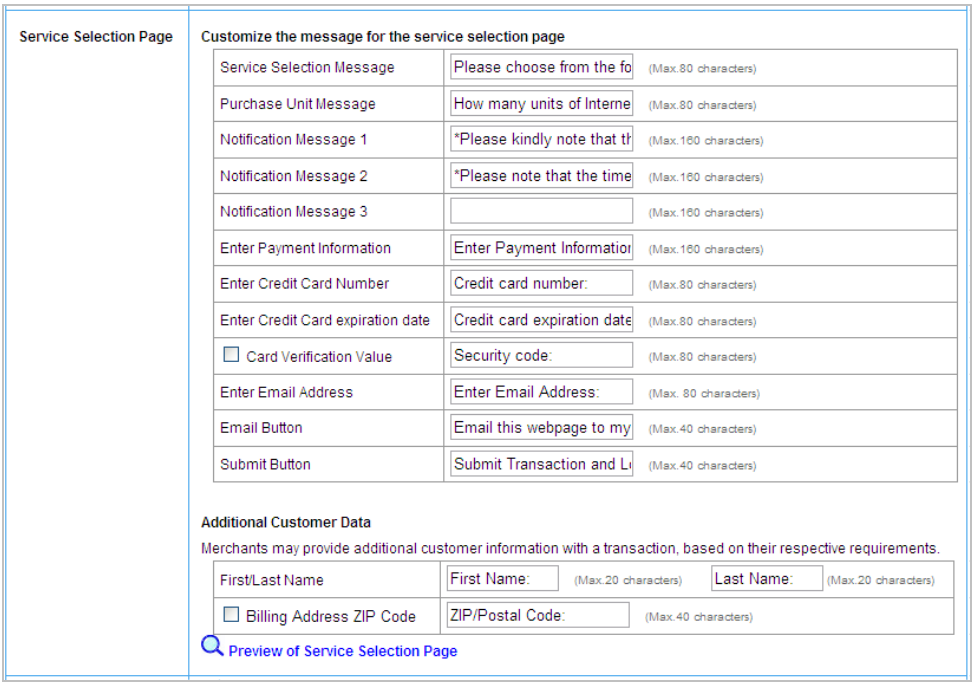


Figure 140 Service Selection Page Setting Screen (iValidate.net)

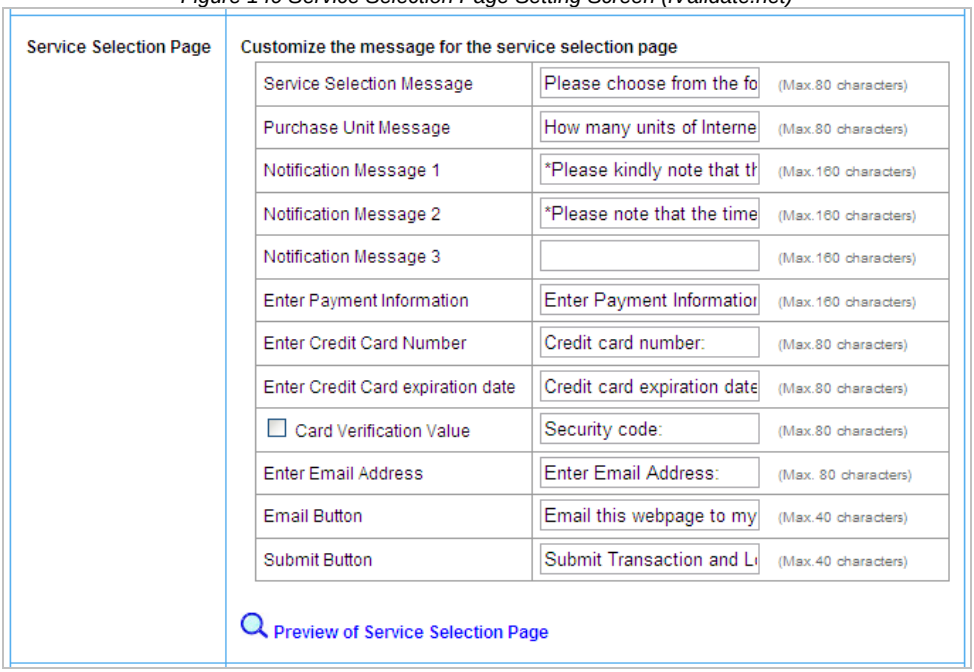


Figure 141Service Selection Page Setting Screen (Secure Pay)

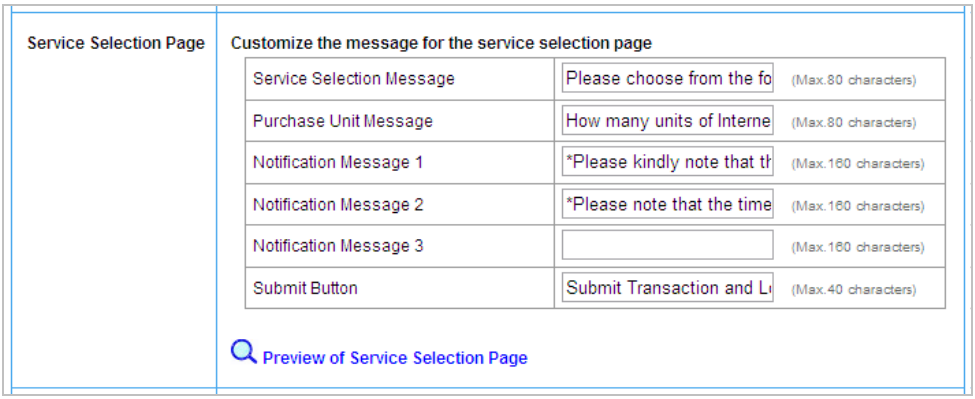


Figure 142 Service Selection Page Setting Screen (PalPay and WorldPay)

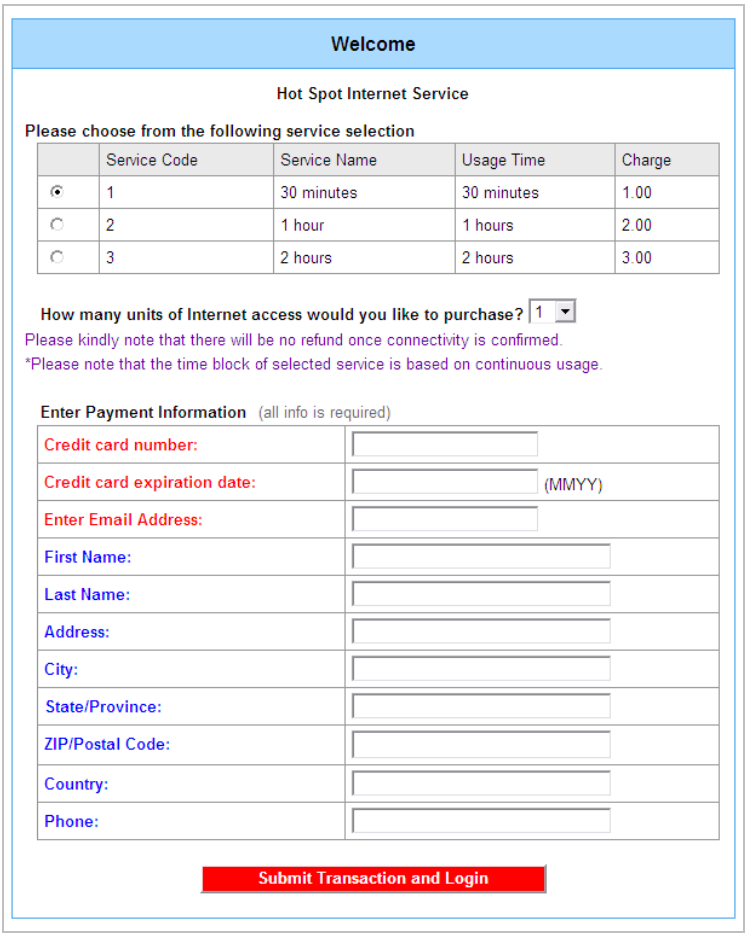


Figure 143 Service Selection Page Setting Screen(Authorize.net)

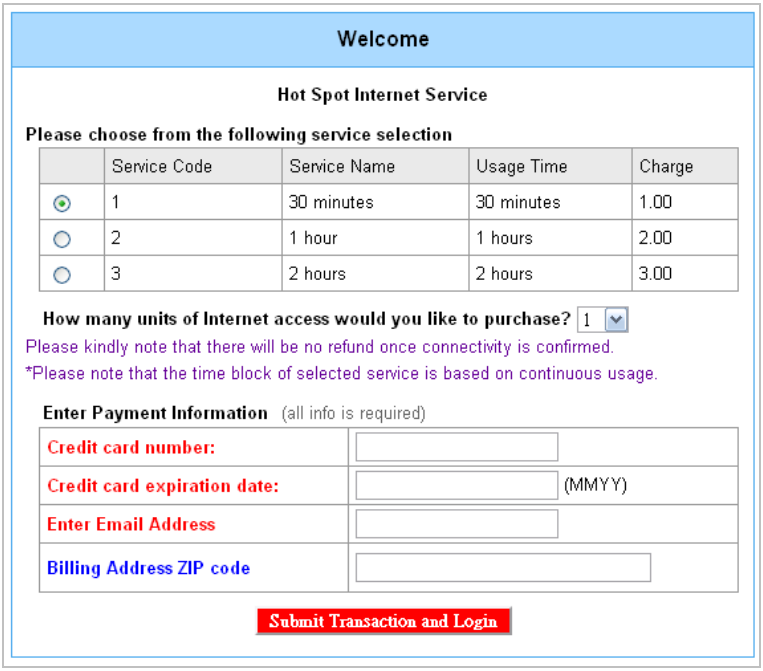


Figure 144 Service Selection Page Setting Screen (iValidate.net)

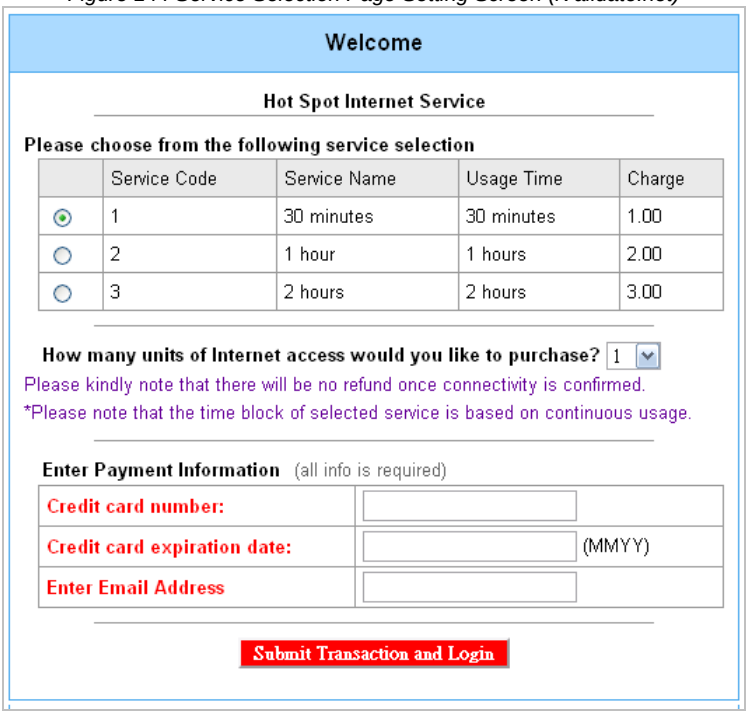


Figure 145Service Selection Page Setting Screen (Secure Pay)

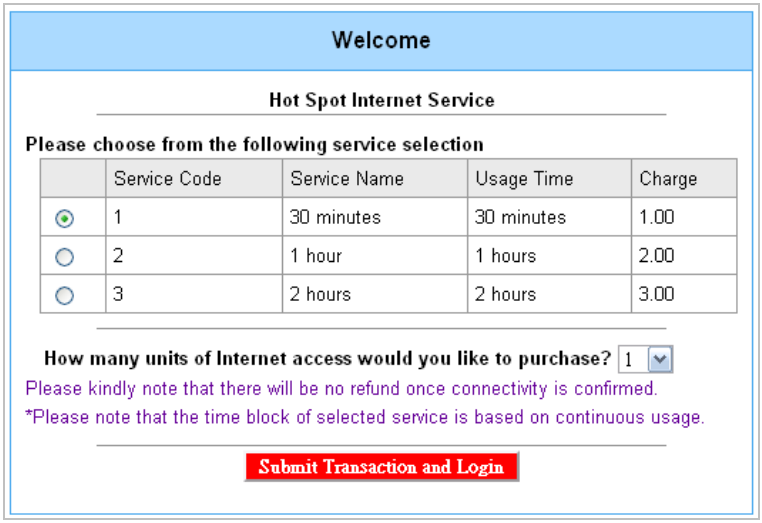


Figure 146 Service Selection Page Setting Screen (PalPay and WorldPay)

Successful Page

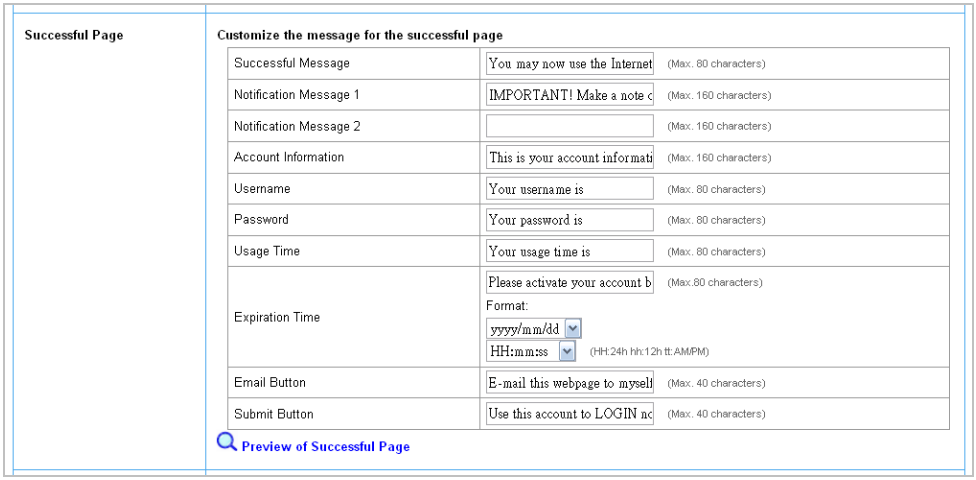


Figure 147 Successful Page Setting Screen

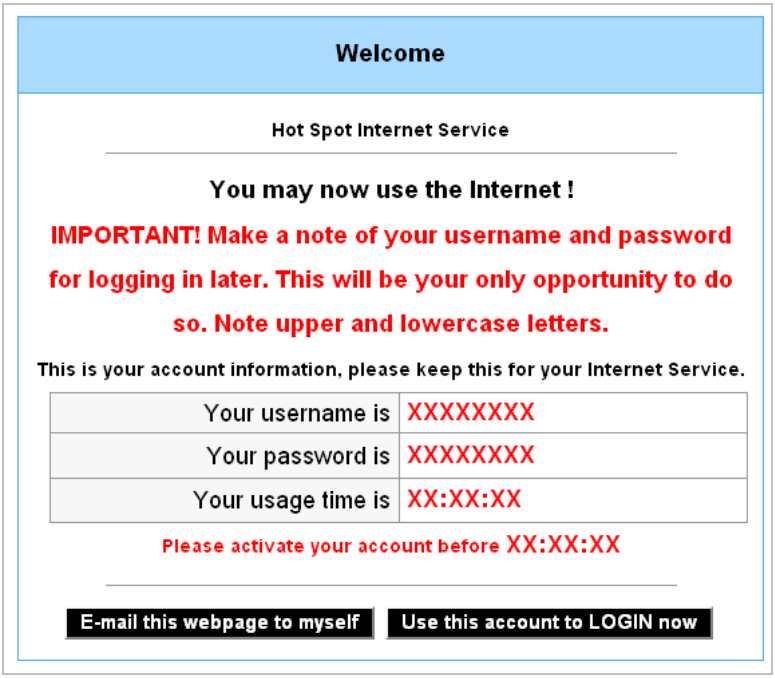

Welcome
Hot Spot Internet Service
You may now use the Internet !
IMPORTANT! Make a note of your username and password for logging in later. This will be your only opportunity to do so. Note upper and lowercase letters.
This is your account information, please keep this for your Internet Service.
Your username is XXXXXXXX
Your password is XXXXXXXX
Your usage time is XX:XX:XX
Please activate your account before XX:XX:XX
E-mail this webpage to myself
Use this account to LOGIN now

Figure 148 Example-Successful Page

Fail Page

This function allow service provider to customize the message for the fail page.

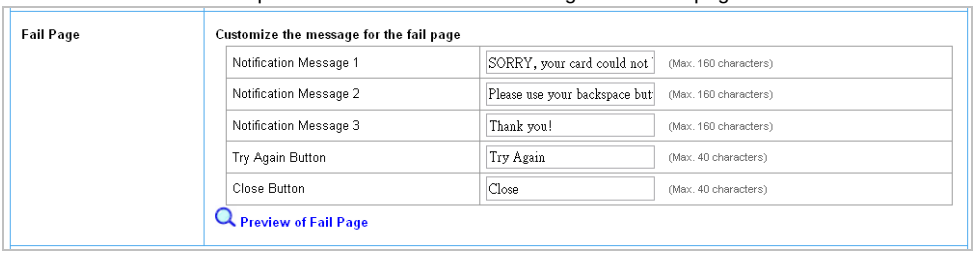


Figure 149 Fail Page Setting Screen

*Click **Apply** button to save the new settings.*

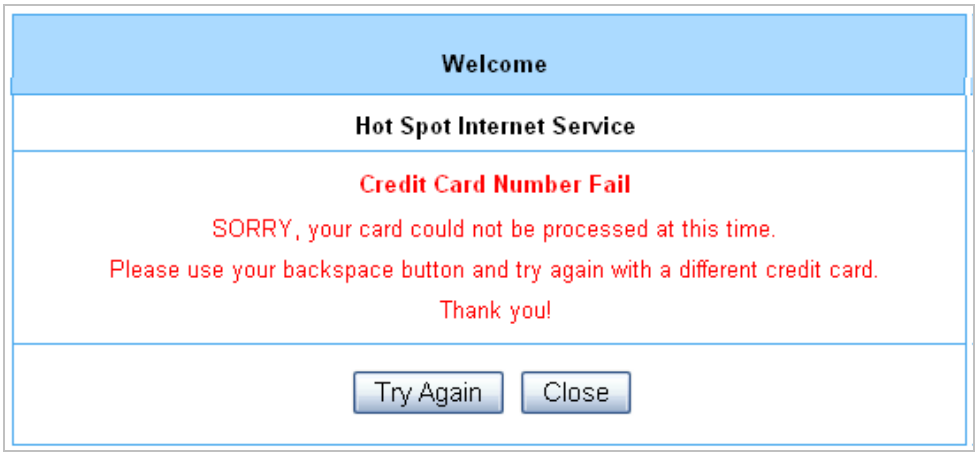

Welcome
Hot Spot Internet Service
Credit Card Number Fail
SORRY, your card could not be processed at this time.
Please use your backspace button and try again with a different credit card.
Thank you!
Try Again
Close

Figure 150 Fail Page

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Credit Card Customization setting screen.

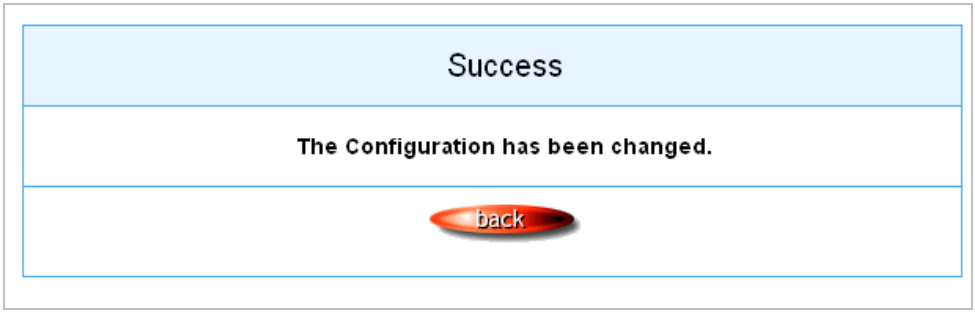


Figure 151 Success Dialog Box

User Agreement Page

This function allow user to design user agreement page of Internet Subscriber Server.

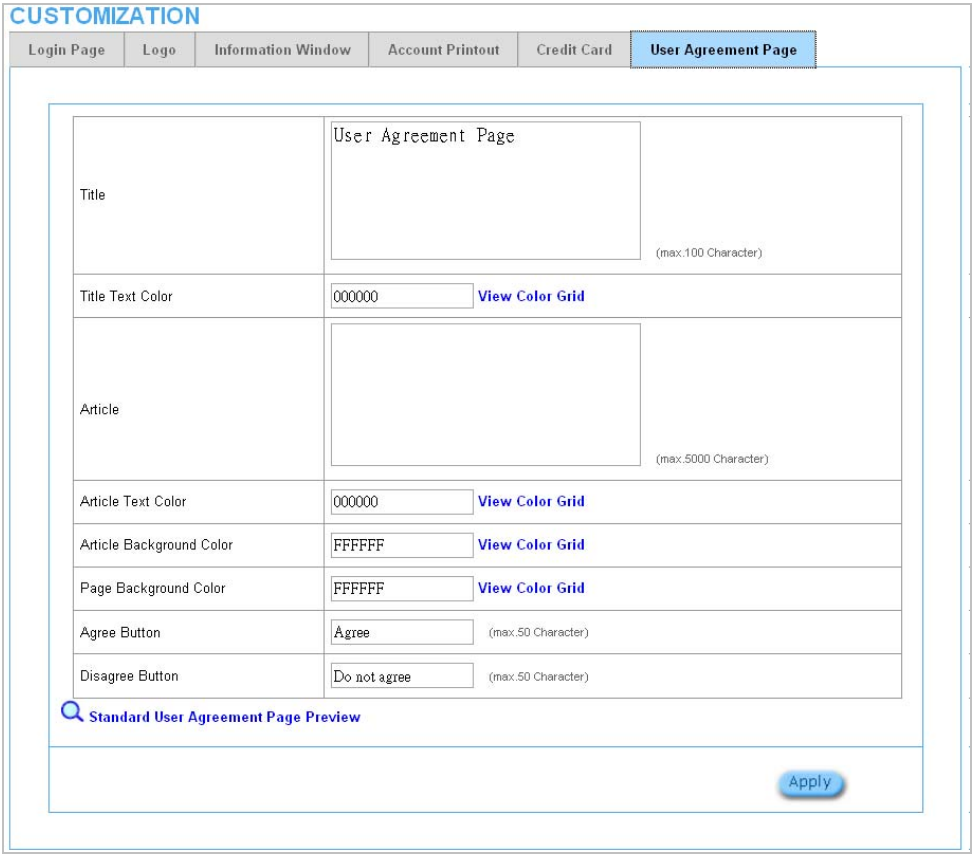


Figure 152 User Agreement Page Setting Screen

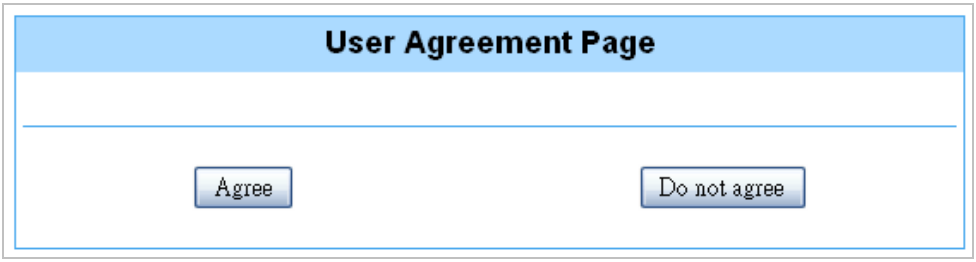


Figure 153 User Agreement Page

3-2-4-6 *Portal Page*

This feature allows redirecting subscriber's browser to a specified portal page after successful login.

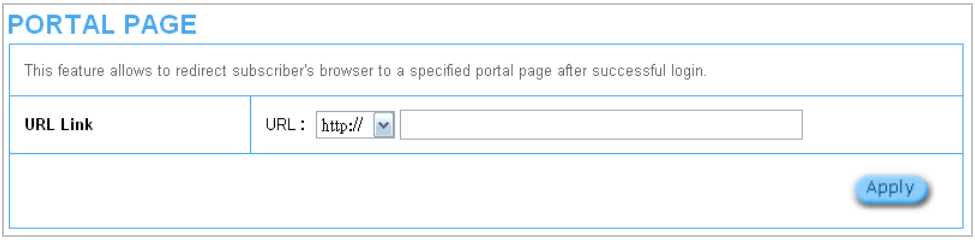


Figure 154 Portal Page Setting Screen

Item	Default	Description
URL Link	Empty	Enter the URL Link page. The input format can be "http://www.yahoo.com". The maximum character of the URL Link is 200.

*Click **Apply** button to save the new settings.*

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Portal Page setting screen.

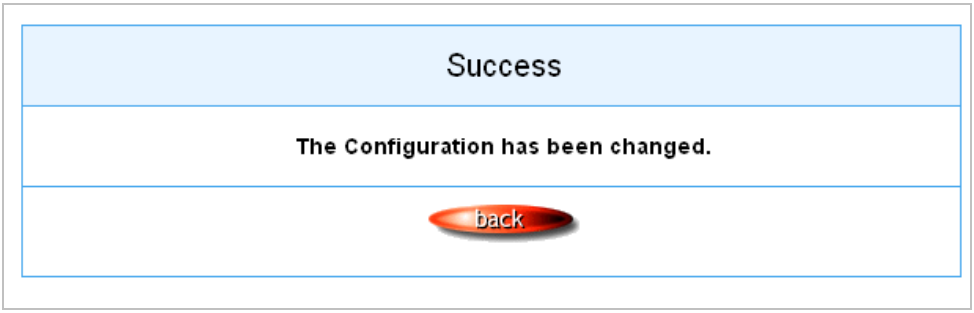


Figure 155 Success Dialog Box

3-2-4-7 Advertisement

The system allow service provider to input 10 URL links for advertisement link purpose.

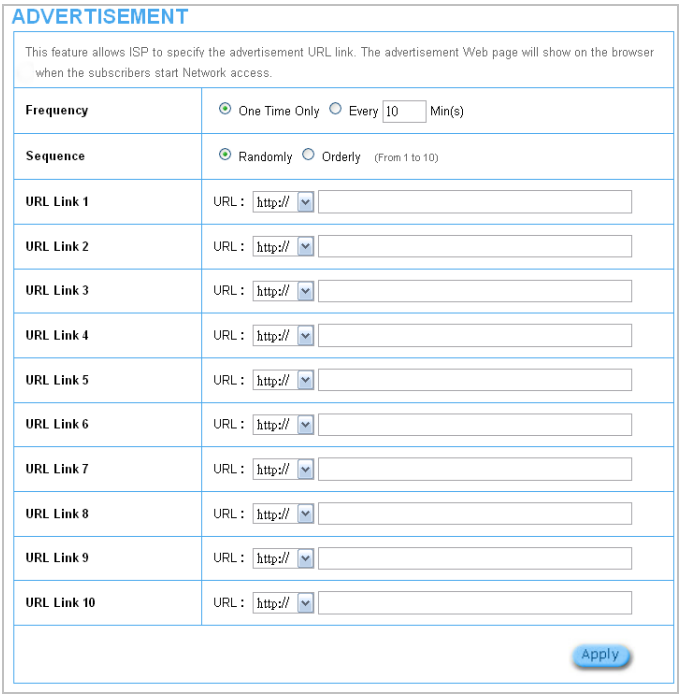


Figure 156 Advertisement URL Link Setting Screen

Item	Default	Description
Frequency	One Time Only	One Time Only—One Time Only means to send the advertisement link once after the subscriber Login. Every~Min(s)—The field means to send the advertisement link every interval minutes. The value range is 1 to 60 (minutes).
Sequence	Randomly	Randomly—Display the advertisement page in the random order. From 1 to 10 —Display the advertisement page in the order as setting.
URL Link 1~10	Empty	This function allows the administrator to input ten different websites in the table for advertisement. And these 10 websites will display to the subscribers at random when the subscribers login in the Wireless Subscriber Gateway system. The input format can be “http://www.yahoo.com”. The maximum character of the URL Link # is 200.

*Click **Apply** button to save the new settings.*

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Advertisement URL Link setting screen.

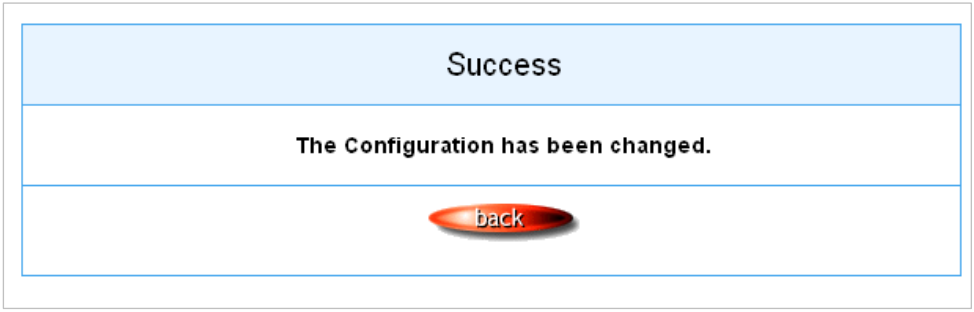


Figure 157 Success Dialog Box

3-2-4-8 Walled Garden

We prepare ten URL links that allows subscriber to access the specific Web pages even they didn't have a username or password. It's free trying and can use for advertisement.

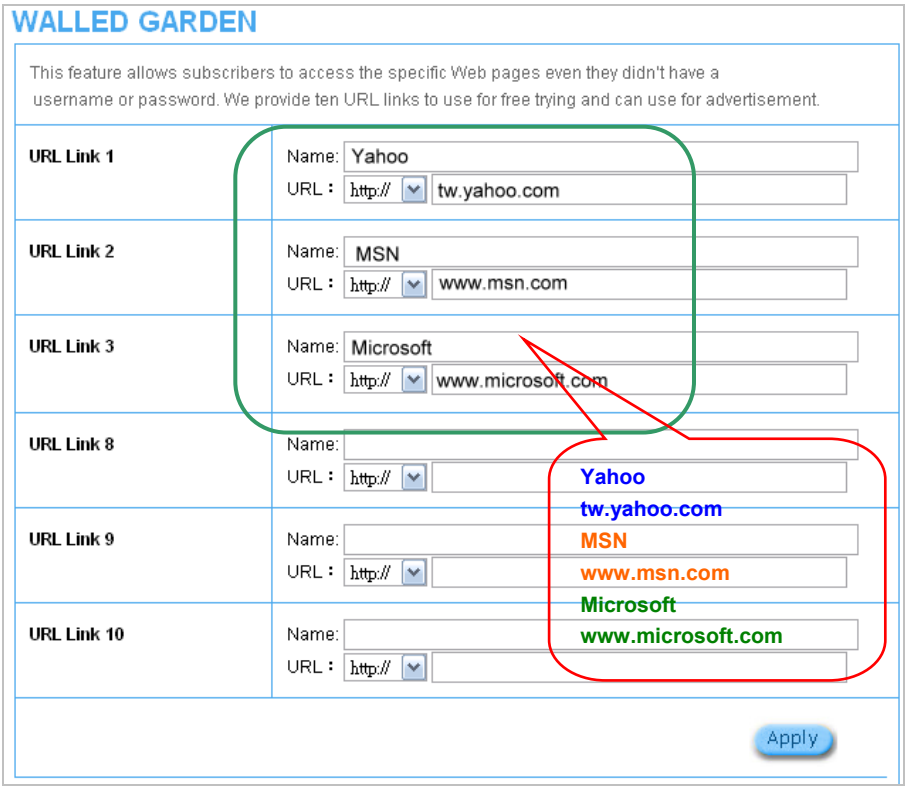


Figure 158 Walled Garden

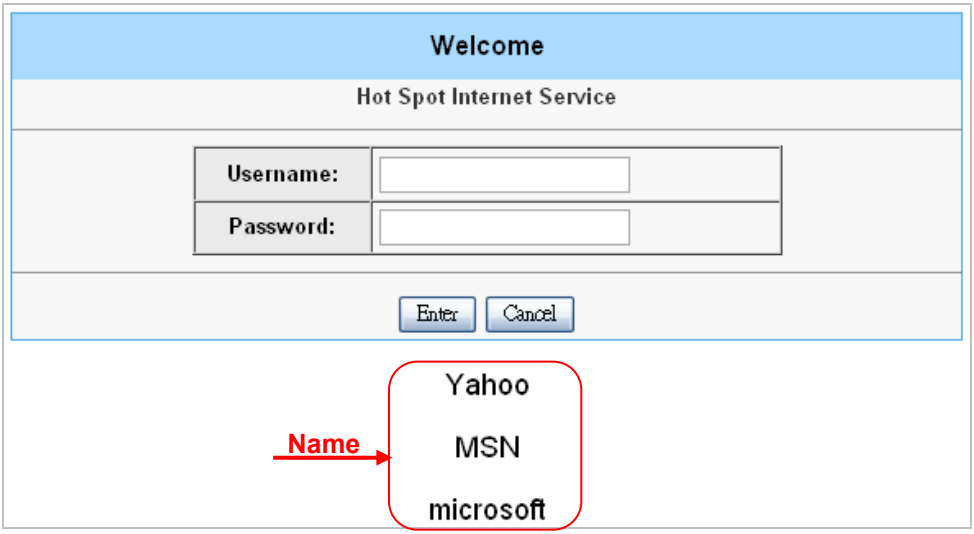
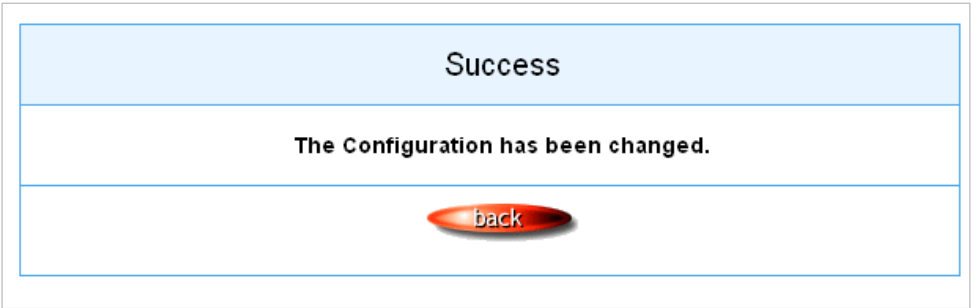


Figure 159 Login Page

Item	Description
Link 1~10	
Name	The name is allowed user to set the prompt string in user customize login page. The maximum allowed characters length is 80.
URL 1~10	The input format can be “http://www.yahoo.com”. The maximum character of the Link# is 200.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Walled Garden setting



screen.

Figure 160 Success Dialog Box

3-2-4-9 DDNS

The DDNS service (Dynamic Domain Name Service), an IP Registry provides a public central database where information such as email addresses, host names, IP addresses etc. can be stored and retrieved. This solves the problems if your DNS server uses an IP associated with dynamic IP addresses. When the ISP assigns the Wireless Subscriber Gateway a new IP, the Wireless Subscriber Gateway must inform the DDNS server the change of this IP so that the server can update its IP-to-DNS entry. Once the IP-to-DNS table in the DDNS server is updated, the DNS name for your web server (i.e., xyz.dyndns.org) is still usable.

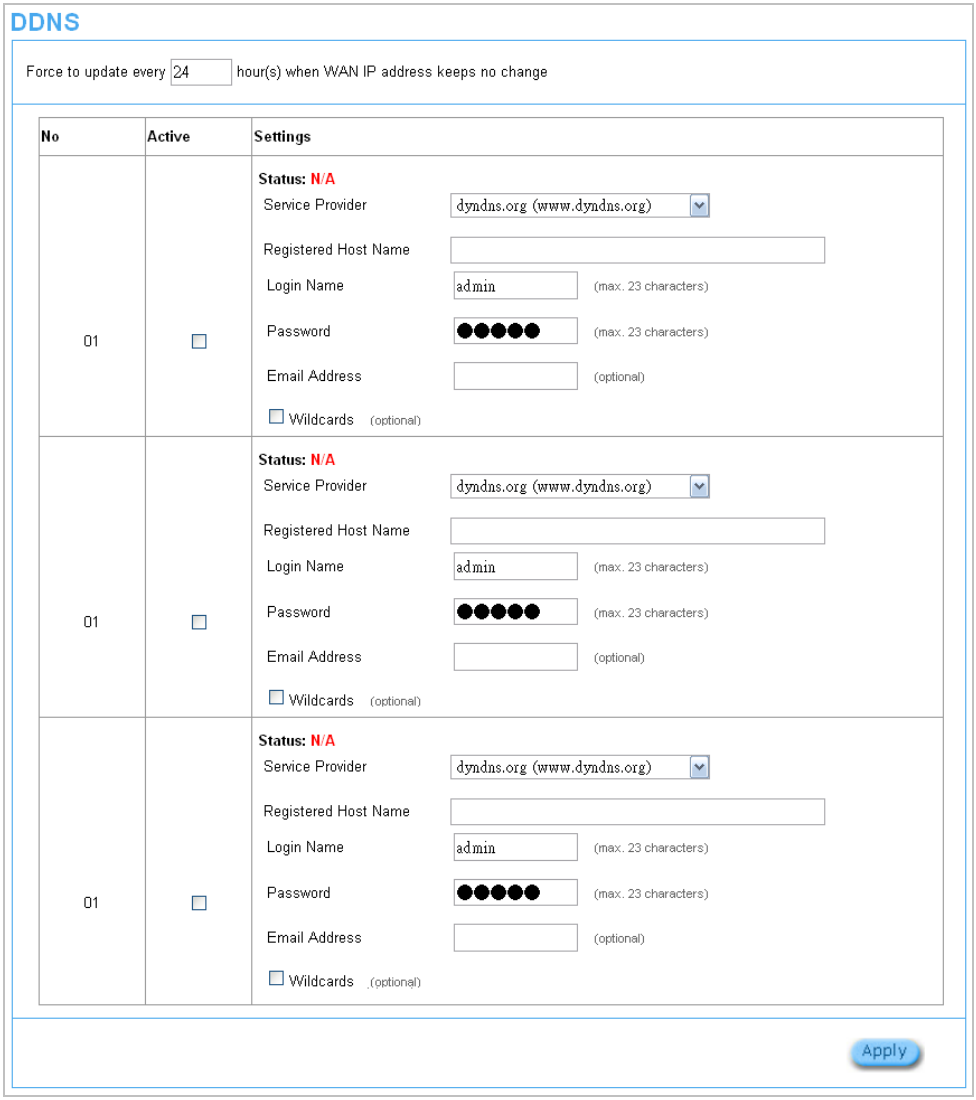


Figure 161 DDNS Setting Screen

Item	Default	Description
Force to update every ~day(s) when WAN IP address keeps no change	1 day	Enter a number in the field to set the force update interval (in days).
No	01~03	The index number of a DDNS account.
Active	Disable	Click on check box, active or inactive the DDNS record.
Update Status Now	Click the **Update Status Now** button to do manual update.	
Settings	Enter the account information of DDNS Server.	
Status	YY/MM/DD HH:MM:SS:	Display the update date, time and status. The Status area shows the update time and current state of the DDNS Client. N/A—DDNS Client service not installed. Update Successfully—DDNS Client service installed; service running. Update Fail—DDNS Client service installed; service not running.
Service Provider	Dyndns.org (www.dyndns.org)	Select a DDNS service provider by clicking in the list box. Note: Before configuring the DDNS settings, you have to register a dynamic domain at one of the dynamic domain service providers' list box.
Registered Host Name	Empty	Enter the host name of DDNS server. The maximum character of the registered host name is 100.
Login Name	Empty	Enter the user name of DDNS server.
Password	Empty	Enter the user password of DDNS server.
Email Address	Empty	Enter your email address. The DDNS Server will e-mail you important information once your Internet Name has been successfully registered.
Wildcards (optional)	Disable	Enable this function to be able to use *.mydomain.dyndns.org and not only mydomain.dyndns.org.

*Click **Apply** button to save the new settings*

Click **Apply** button, the success dialog box appears. Click on Back to return to DDNS setting screen.

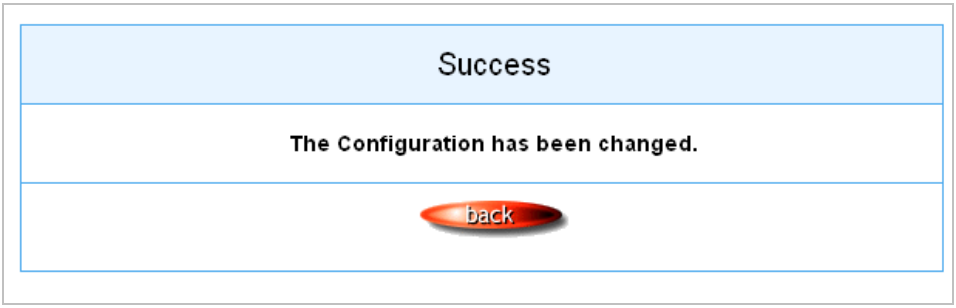


Figure 162 Success Dialog Box

3-2-4-10 ***Wireless***

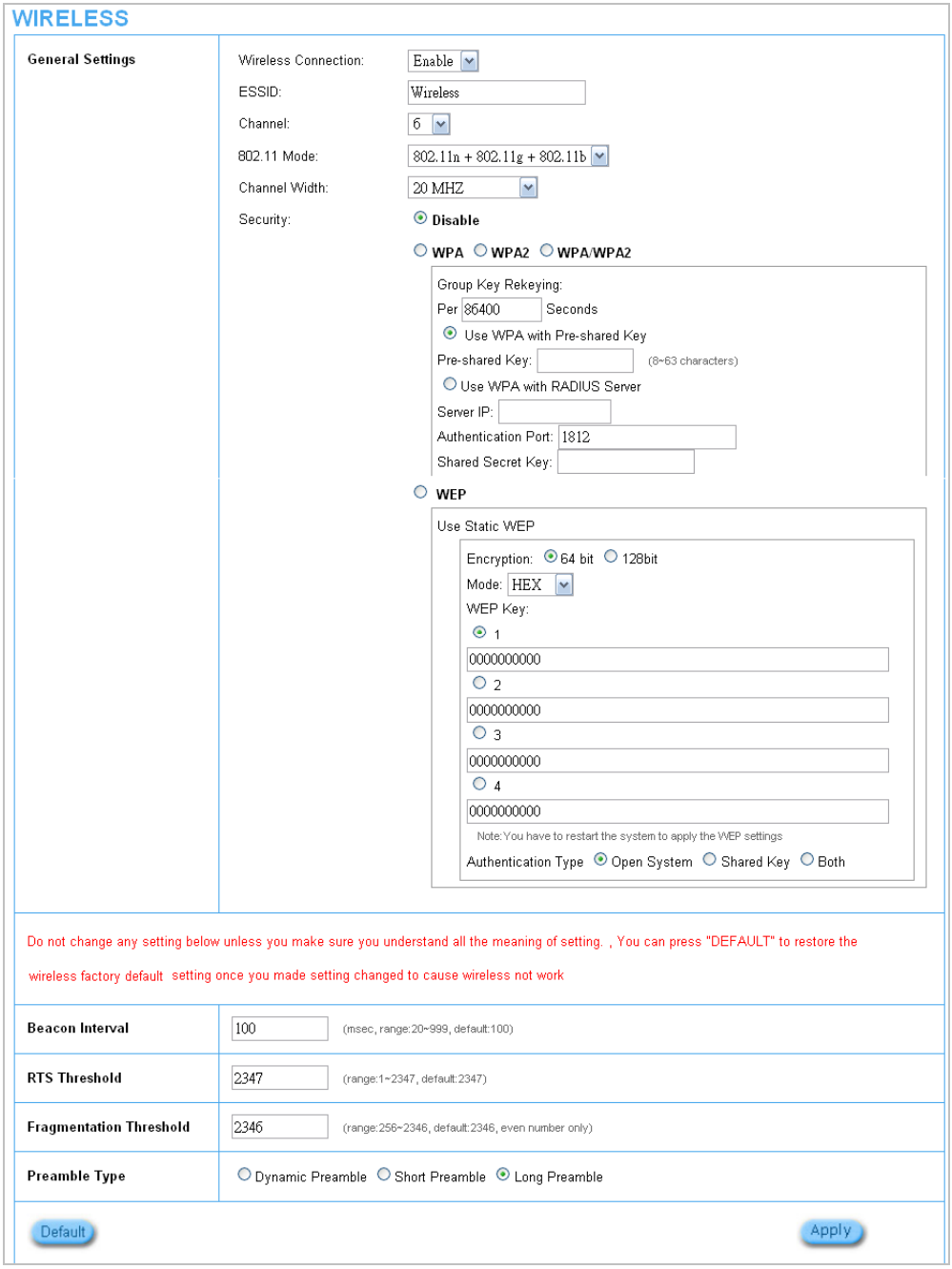


Figure 163 Wireless Setting Screen

Item	Default	Description
General Settings		
Wireless Connection	Enable	To Enable or Disable wireless connection.
ESSID	Wireless	The ESSID is the unique name that is shared among all points in a wireless network. It is case sensitive and must not exceed 32 characters.
Channel	6	Select the channel ID for wireless connection.
Security	Disable	Select disable to allow wireless station to communicate with the device without any data encryption. Select enable to enable WPA or WEP data encryption.
WPA2 and WPA Encryption	Wi-Fi Protected Access Encryption	
Pre-shared Key	Empty	Enter a pre-shared key from 8 to 63 case sensitive ASCII characters.
Group Key Re-Keying	86400 Seconds	Enter a number in the field to set the force re-keying interval.
Use WPA with Pre-shared Key	Enable	
Pre-Shared Key	Empty	Enter a pre-shared key from 8 to 63 case sensitive ASCII characters.
Use WPA with RADIUS	Disable	
Server IP	Empty	Enter the RADIUS server IP address or domain name. The maximum allowed characters length is 15.
Authentication Port	1812	Enter the authentication port number. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	Enter the RADIUS secret key
WEP Encryption	Wired Equivalent Privacy Encryption	
Encryption	64 bit	The Wireless Subscriber Gateway supports 64-bit or 128 bit WEP encryption.
Mode	HEX	Options: HEX (Hexadecimal) and ASCII (American Standard Code for Information Interchange).

Item	Default	Description
WEP Key	1	This selects which of the Keys the Wireless Subscriber Gateway uses when it transmits. You can change the selected encryption key every now and then to increase the security of your network. Note: You have to configure all WEP keys (1~4), and select one of the four WEP key. Enter 5 characters (case sensitive) for ASCII 64-bit WEP Key. Enter 10 characters (case sensitive) for Hex 64-bit WEP Key. Enter 13 characters (case sensitive) for ASCII 128-bit WEP Key. Enter 26 characters (case sensitive) for Hex 128-bit WEP Key.
802.1x	Disable	Enables or disables the 802.1x function.
Encryption	64 bit	The Wireless Subscriber Gateway supports 64-bit or 128 bit 802.1x encryption.
Re-key Time	86400 Seconds	Enter a number in the field to set the force re-keying interval.
Server IP	Empty	Enter the RADIUS server IP address or domain name. The maximum allowed characters length is 15.
Authentication Port	1812	Enter the authentication port number. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	Enter the RADIUS secret key.
Beacon Interval	200	This value valid range is 1 to 1000 indicates the frequency interval of the beacon.
RTS Threshold	2347	This value valid range is 256-2342. This setting determines the packet size at which the Wireless Subscriber Gateway issues a request to send (RTS) before sending the packet. A low RTS Threshold setting can be useful in areas where many client devices are associating with the Wireless Subscriber Gateway, or in areas where the clients are far apart and can detect only the Wireless Subscriber Gateway and not each other.

Item	Default	Description
Fragmentation Threshold	2432	This setting determines the size at which packets are fragmented. Enter a setting ranging from 256 to 2432 bytes. Use a low setting in areas where communication is poor or where there is a great deal of radio interference.
Preamble Type	Long Preamble	The preamble type is a section of data at the head of a packet that contains information the Wireless Subscriber Gateway and client devices need when sending and receiving packets. The setting menu allows you to select a long, short or dynamic preamble type.
Authentication Method	Open System	Select open system, shared Key or both. Open System—Allows any device to authenticate and then attempt to communicate with the Wireless Subscriber Gateway. Using open authentication, any wireless device can authenticate with the Wireless Subscriber Gateway, but the device can only communicate if its WEP keys match the Wireless Subscriber Gateway. Devices not using WEP do not attempt to authenticate with a Wireless Service Gateway that is using WEP. Shared Key—During shared key authentication, the Wireless Subscriber Gateway sends an unencrypted challenge text string to any device attempting to communicate with the Wireless Subscriber Gateway. The device-requesting authentication encrypts the challenge text and sends it back to the Wireless Subscriber Gateway. If the challenge text is encrypted correctly, the Wireless Subscriber Gateway allows the requesting device to authenticate. Both the unencrypted challenge and the encrypted challenge can be monitored, however, which leaves the Wireless Subscriber Gateway open to attack from an intruder who calculates the WEP key by comparing the unencrypted and encrypted text strings. Because of this weakness, shared key authentication can be less secure than open authentication. Both—With this setting wireless stations can communicate with or without data encryption.

Click Apply button to save the new settings.

Click **Apply** button, the restart dialog box appears. Click on **Apply** to restart the system.

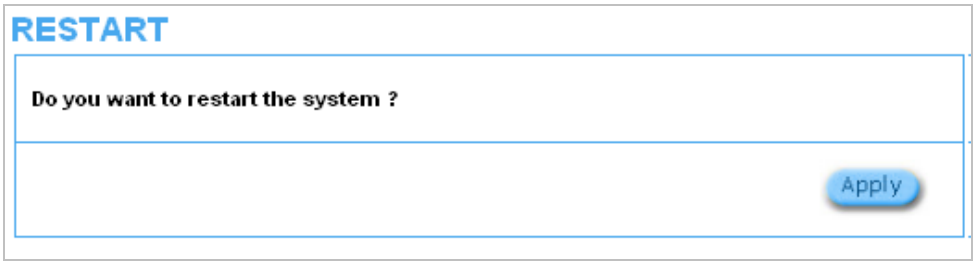


Figure 164 Restart Dialog Box

This operation will load the default manufacturer configuration to the system. All this page (Wireless) configuration setup will be replaced by default settings.

3-2-4-11 Account Generator

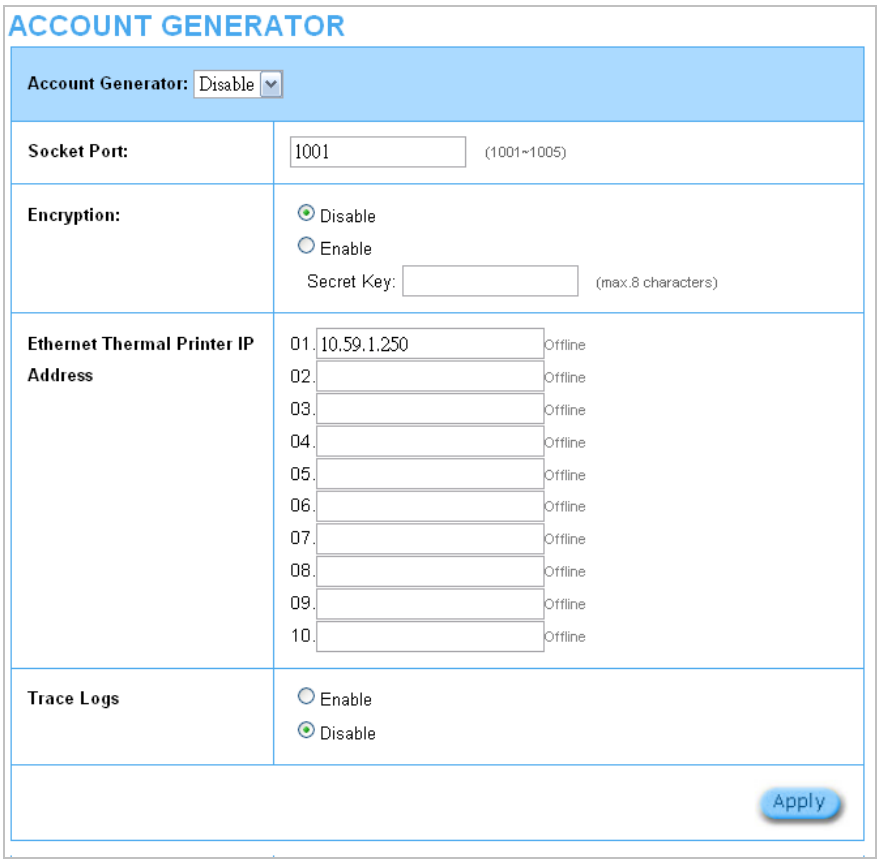


Figure 165 Account Generator Printer Setting Screen

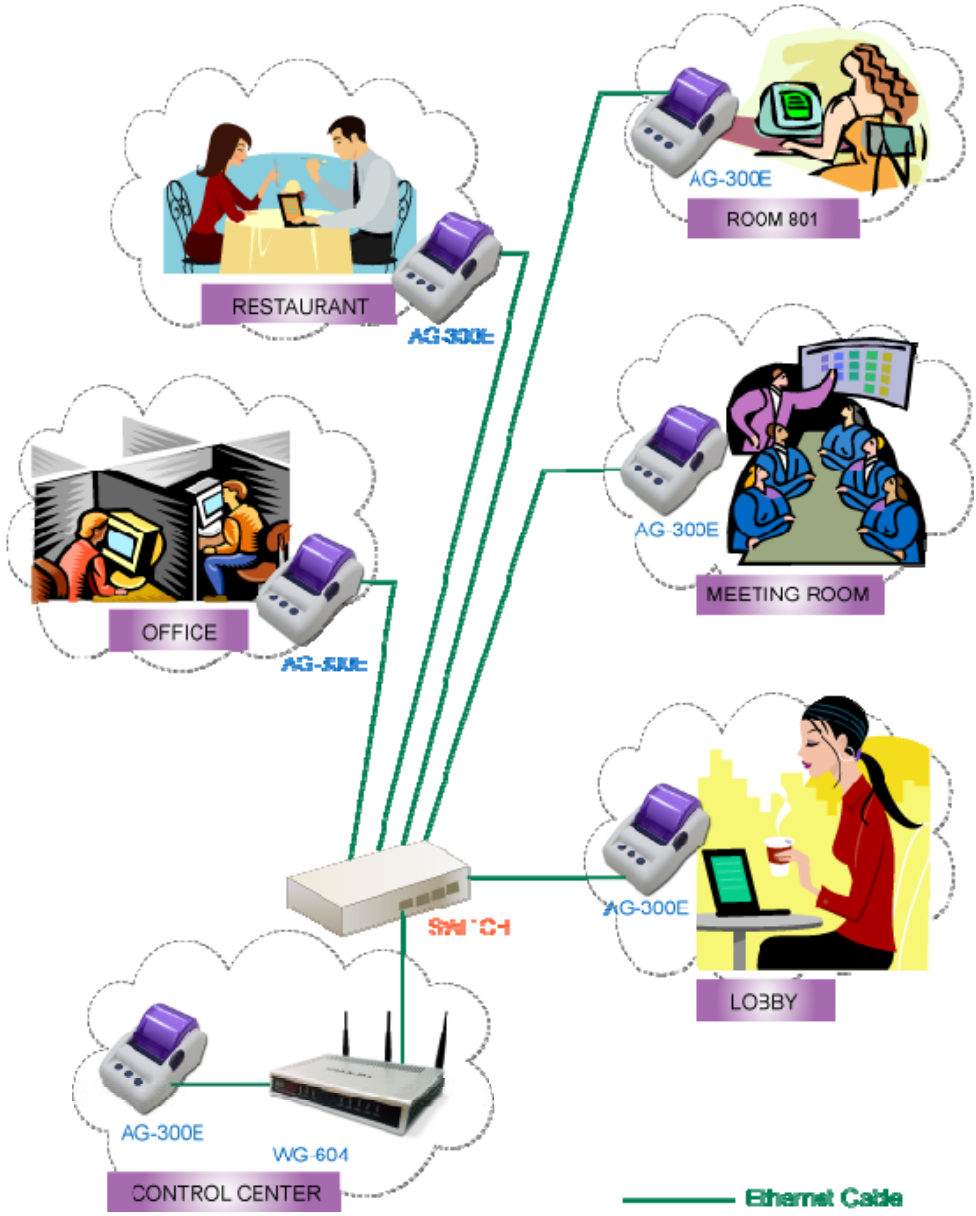


Figure 166 Application

3-3 System Status

Display Wireless Subscriber Gateway system basic status, including,

1. System
2. Account List
3. Account Log
4. Current User
5. DHCP Clients
6. Session List
7. LAN Devices

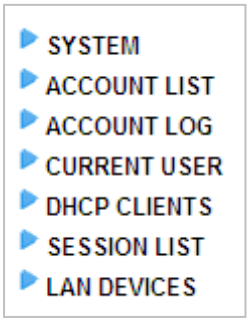
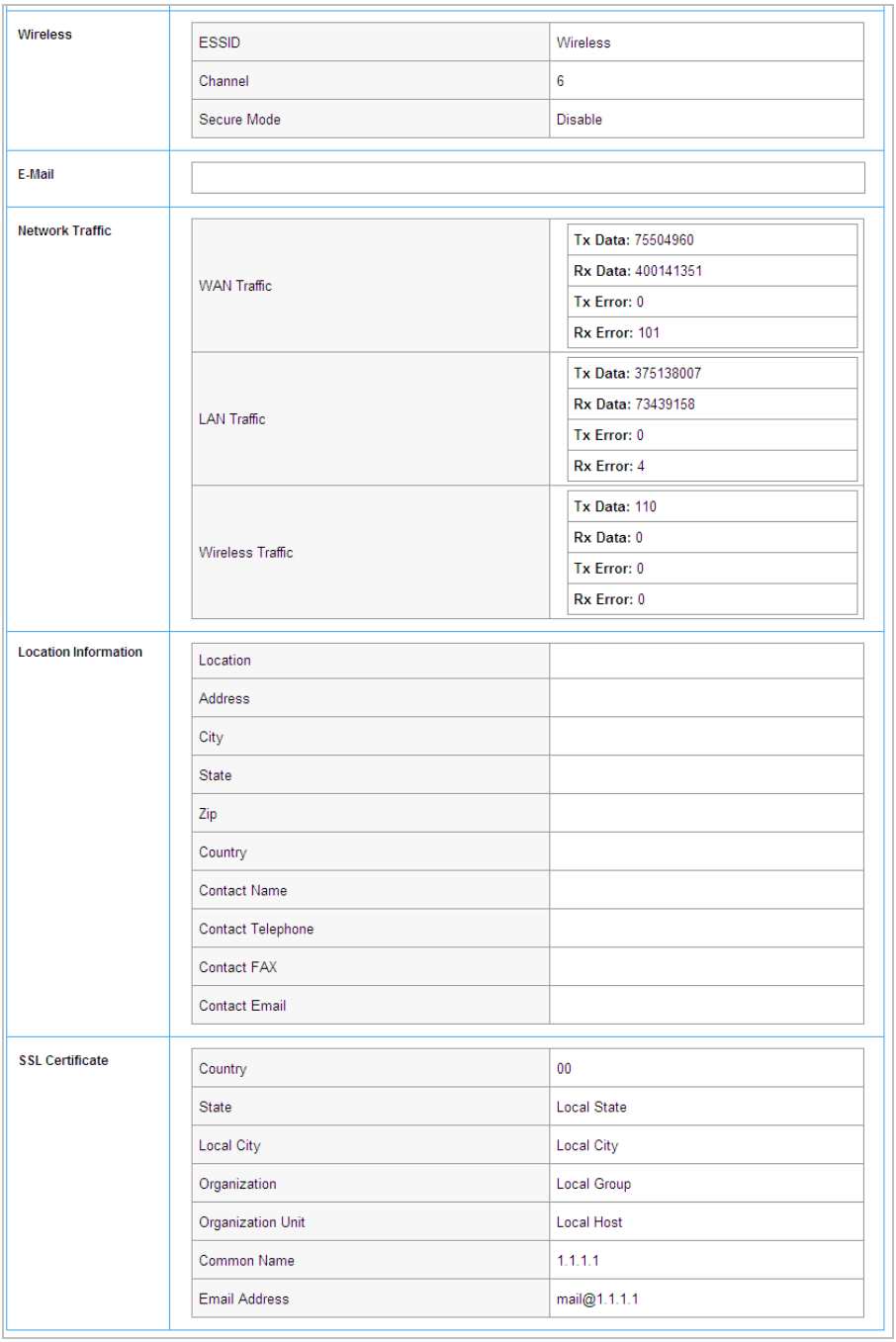


Figure 167 System Status Item Screen

3-4-1 *System*

The System Information Menu displays current system basic information including the service connection message, host name, LAN, WAN, DHCP Configuration, DNS, E-mail Redirection, SSL Certificate, network traffic Information and the system firmware version number.

Figure 168 System Status Screen



Wireless	ESSID	Wireless
	Channel	6
	Secure Mode	Disable
E-Mail		
Network Traffic	WAN Traffic	**Tx Data:** 75504960 **Rx Data:** 400141351 **Tx Error:** 0 **Rx Error:** 101
	LAN Traffic	**Tx Data:** 375138007 **Rx Data:** 73439158 **Tx Error:** 0 **Rx Error:** 4
	Wireless Traffic	**Tx Data:** 110 **Rx Data:** 0 **Tx Error:** 0 **Rx Error:** 0
Location Information	Location	
	Address	
	City	
	State	
	Zip	
	Country	
	Contact Name	
	Contact Telephone	
	Contact FAX	
	Contact Email	
SSL Certificate	Country	00
	State	Local State
	Local City	Local City
	Organization	Local Group
	Organization Unit	Local Host
	Common Name	1.1.1.1
	Email Address	mail@1.1.1.1

Figure 169 System Status Screen

3-4-2 Account List

You can display a list of all the account information on this device. This table includes the username, password, usage time, time created, login time, expiration time and status.

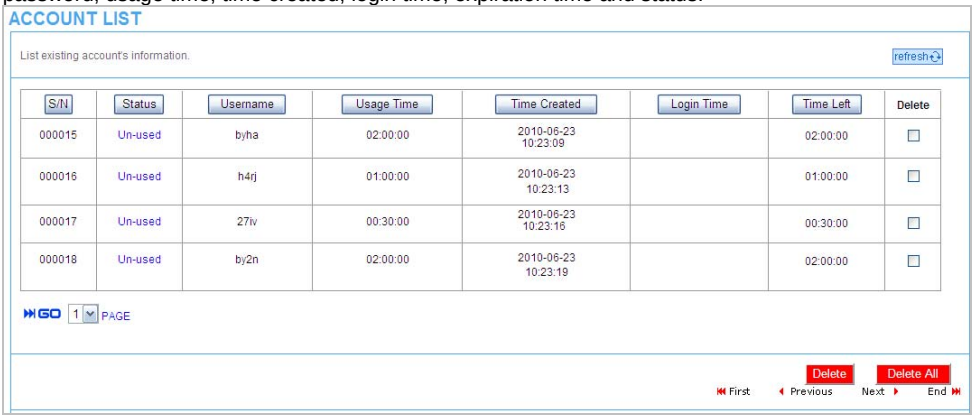


Figure 170 Account List

Click on refresh button to update the account list page.

Click the column button to sort the column in ascending/descending order.

*Select the check boxes and click '**Delete**' to delete the accounts.*

Delete all accounts in account list.

***Note:** This page will refresh automatically every 5 minutes.*

3-4-3 *Account Log*

The account log shows the accounts' log information.

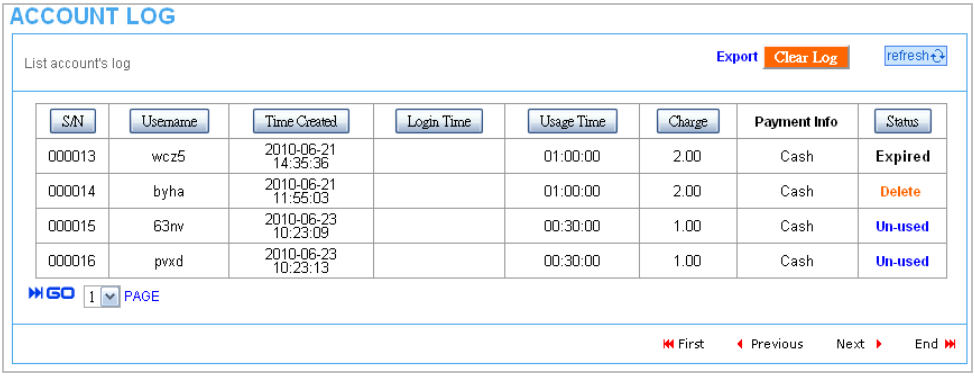


Figure 171 Account Log

Export

This allow you to export the account logs to a text file format. (export.log)

Clear Log

*Click on **Clear Log** to remove all account log entries.*

refresh

Click on refresh button to update the account log page.

S/N | Username | Time Created | Login Time | Usage Time | Charge | Status

Click the column button to sort the column in ascending/descending order.

3-4-4 *Current User*

Display the current logged-in subscribers' status. It allow service provider to disconnect any subscribers.

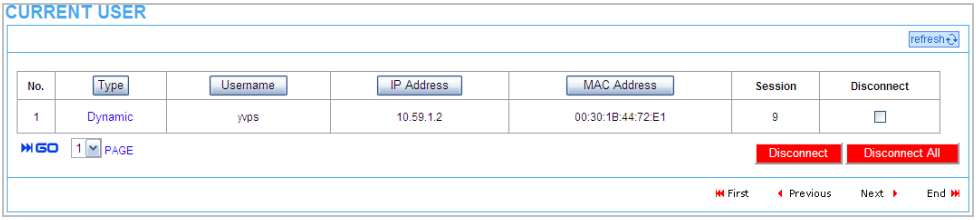


Figure 172 Current User List

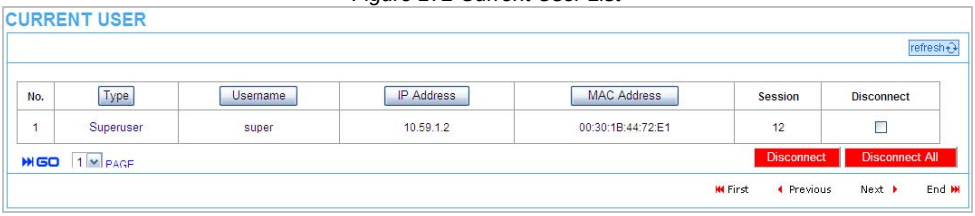


Figure 173 Current User List (super account)

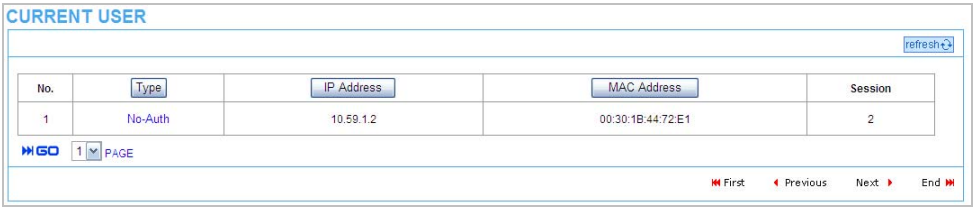
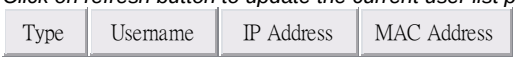


Figure 174 Current User List (No Authentication)

Click on refresh button to update the current user list page.



Click the column button to sort the column in ascending/descending order.

*Select the check boxes and click '**Disconnect**' to disconnect accounts.*

Disconnect all accounts in current user list.

3-4-5 ***DHCP Clients***

The DHCP client table shows the current DHCP users on the LAN.

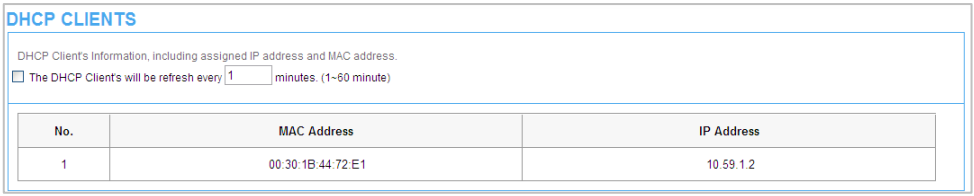


Figure 175 Current User Screen

3-4-6 ***Session List***

The remote site administrator could monitor the real time usage status of Wireless Subscriber Gateway via this page.

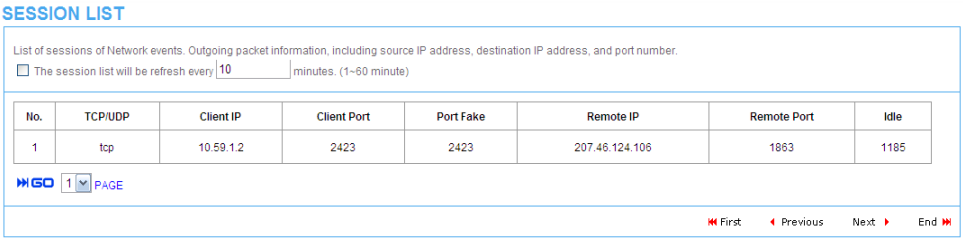


Figure 176 Session List Screen

3-4-7 *LAN Devices*

You can manage all devices by clicking on device name to access device's Web-based interface.

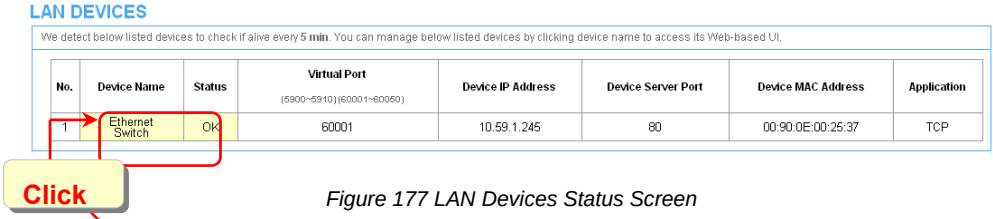


Figure 177 LAN Devices Status Screen

Figure 178 Example- Ethernet Switch Management Screen

3-4 System Tools

This allows service provider or administrator to process Firmware upgrade, change password and backup or restore configuration.

1. Configuration
2. Firmware
3. Boot Code
4. System Account
5. SSL Certificate
6. Ping Command
7. Restart
8. Logout

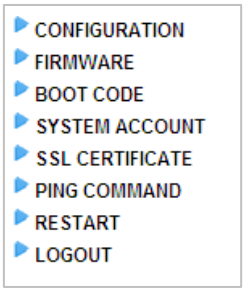


Figure 179 System Tools Item

3-4-1 Configuration

Use the Configuration item to save, restore or reset configuration parameters of the Wireless Subscriber Gateway.

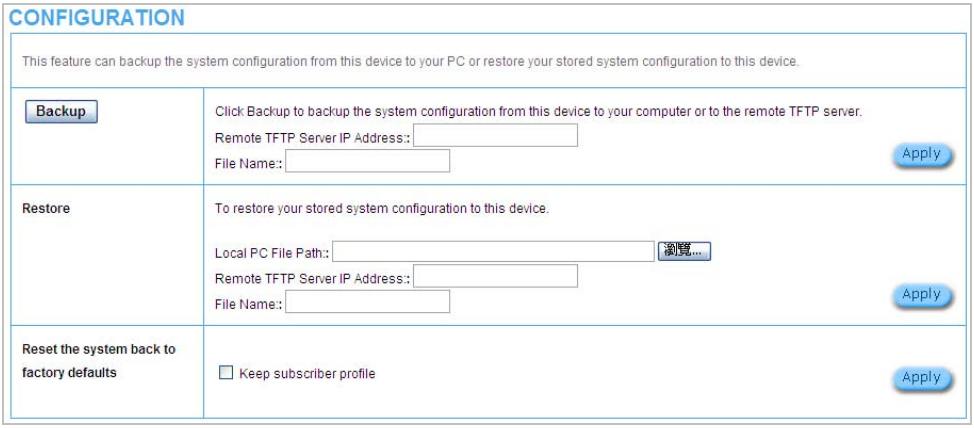

CONFIGURATION
This feature can backup the system configuration from this device to your PC or restore your stored system configuration to this device.
Backup
Click Backup to backup the system configuration from this device to your computer or to the remote TFTP server.
Remote TFTP Server IP Address:
File Name:
Apply
Restore
To restore your stored system configuration to this device.
Local PC File Path:
瀏覽...
Remote TFTP Server IP Address:
File Name:
Apply
Reset the system back to factory defaults
Keep subscriber profile
Apply

Figure 180 Configuration Setting Screen

Item	Default	Description
Backup	Click it to save the system configuration to your computer. (export.cfg)	
Remote TFTP Server IP Address	Empty	Enter the IP address of TFTP Server.
File Name	Empty	Enter the file name in the File Name field.
Restore	Click it to restore your system configuration.	
Local PC File Path	Empty	Enter the file pathname of the system configuration file in the Local PC File Path field.
Remote TFTP Server IP Address	Empty	Enter the IP address of TFTP Server.
File Name	Empty	Enter the file name in the File Name field.
Reset the system back to factory defaults	Erase all setting and back to factory setting.	
Keep subscriber profile	Disable	Click the keep subscriber profile to change all the parameters into factory setting but still reserve the subscriber profiles.

3-4-2 Firmware Upgrade

The Firmware Upgrade menu loads updated firmware to be permanent in flash ROM. The download file should be a binary file from factory; otherwise the agent will not accept it. After downloading the new firmware, the agent will automatically restart it.

● **Manual Firmware Upgrade**

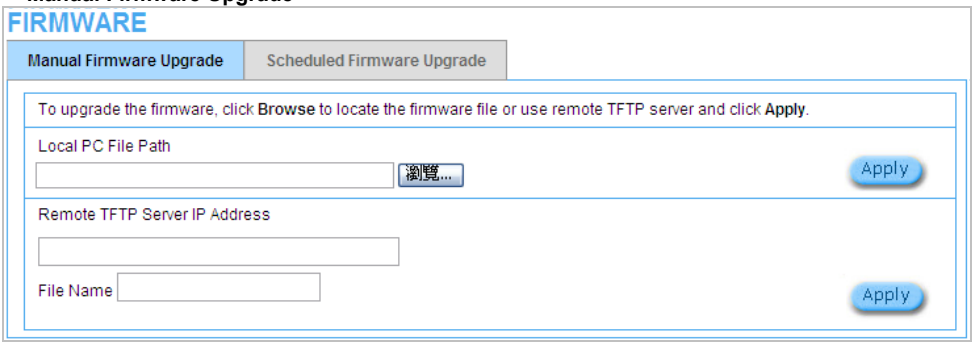

FIRMWARE
Manual Firmware Upgrade
Scheduled Firmware Upgrade
To upgrade the firmware, click Browse to locate the firmware file or use remote TFTP server and click Apply.
Local PC File Path
瀏覽...
Apply
Remote TFTP Server IP Address
File Name
Apply

Figure 181 Manual Firmware Upgrade Setting Screen

Item	Default	Description
This allow administrator to upgrade the firmware via HTTP.		
Local PC File Path	Empty	Enter the file name and location in the Local PC File Path field.
This allows administrator use TFTP server to upgrade firmware.		
Remote TFTP Server IP Address	Empty	Enter the IP address of TFTP Server.
File Name	Empty	Enter the file name in the File Name field.

Note:

1. Before downloading the new firmware, users must save the configuration file for restore configuration parameters of the device.

2. Do not turn the power off during the upgrade process. This will damage the unit.

● **Scheduled Firmware Upgrade**

Scheduled Firmware Upgrade is a program that enables an automatic upgrade to the latest firmware version through the TFTP server.

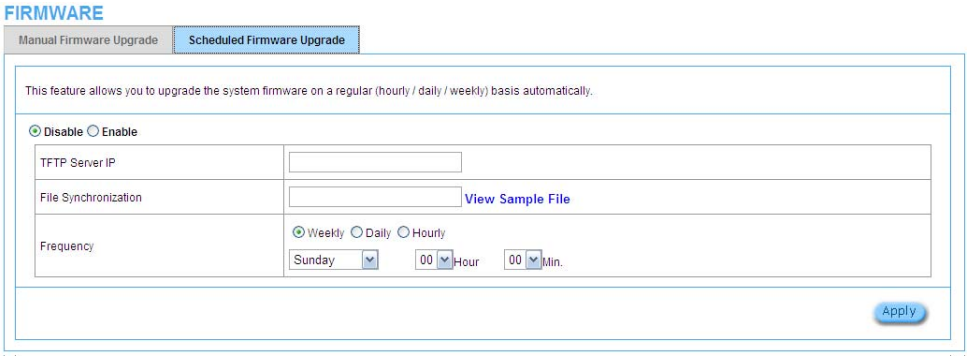


Figure 182 Scheduled Firmware Upgrade Setting Screen

Item	Default	Description
Disable/Enable	Disables or enables the scheduled firmware upgrade function.	
TFTP Server IP	Empty	Enter the IP address of TFTP Server.
File Synchronization	Empty	Enter the file name and location in the File Synchronization field.
View Sample File	Click the button to display synchronization file example.	
Frequency	Weekly	Set the firmware upgrade time. The default value is "Weekly".

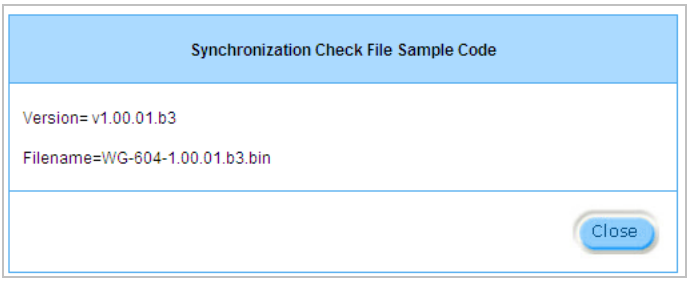


Figure 183 Synchronization File Sample Code

Note: *Do not turn the power off during the upgrade process. This will damage the unit.*

3-4-3 Boot Code

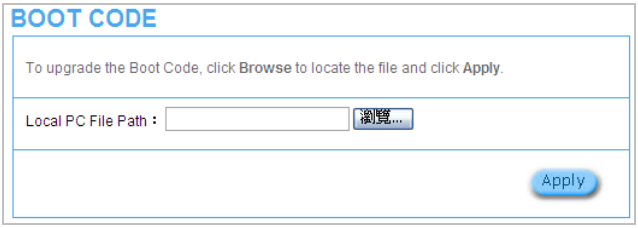


Figure 184 Boot Code Upgrade Setting Screen

3-4-4 System Account

Use the System Account screen to change the system accounts.

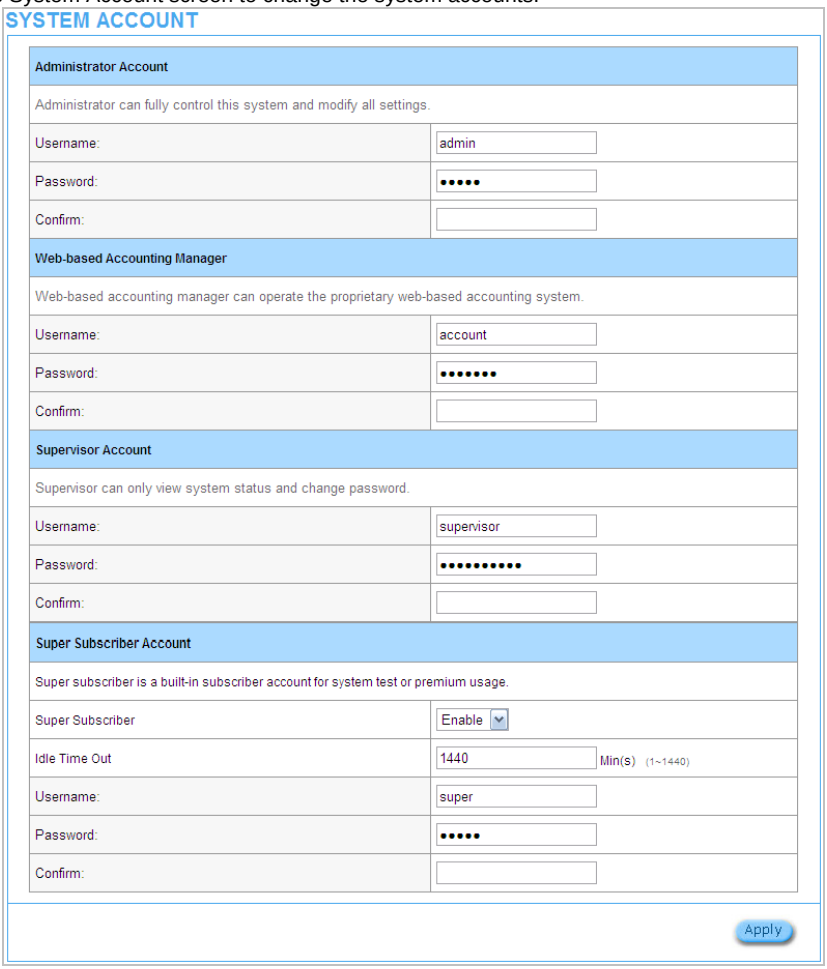


Figure 185 System Account Setting Screen

Item	Description
Username	The username can consist of up to 20 alphanumeric characters and is sensitive.
Password	The password can consist of up to 20 alphanumeric characters and is sensitive.
Confirm	The password for confirmation.
Super Subscriber	Disables or enables the super account function.
Idle Time Out	The user idle time out valid is 1 to 1440 minutes. If the idle time out is set as 5 minutes, it means if the account doesn't send packet in 5 minutes, the account will logout automatically.

- **Administrator Account**

Step 1: Start your Web browser and enter the factory default IP address **10.59.1.1** in your browser's location box. Press Enter.

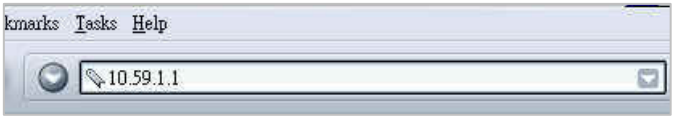


Figure 186 Web Browser Location Field (Factory Default)

Step 2: The Wireless Subscriber Gateway configuration main menu will appear. Enter **admin** (default) as the Username and **admin** (default) as the password and click **Login**. If you are first time setting the system, the wizard setup screen will appear.

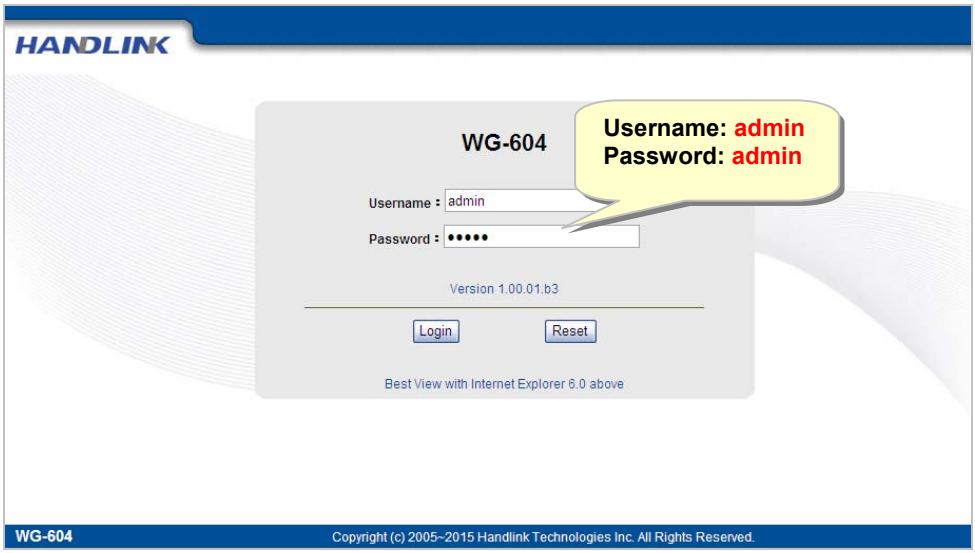


Figure 187 Administrator Account Login Screen (First Time)

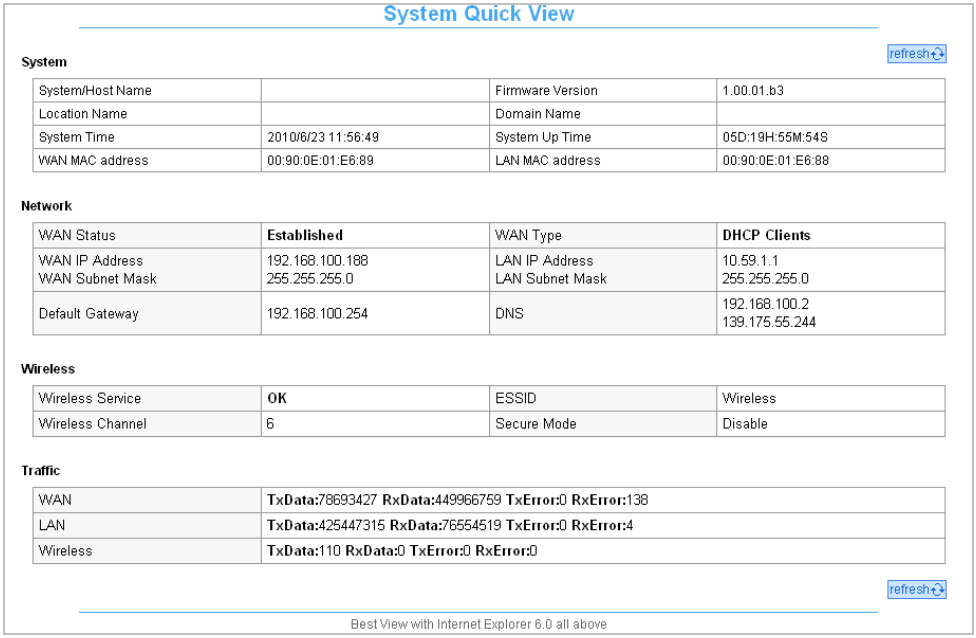


Figure 188 System Quick View

- **Web-Based Accounting Manager**

Step 1: Start your Web browser and enter the factory default IP address **10.59.1.1** in your browser's location box. Press Enter.

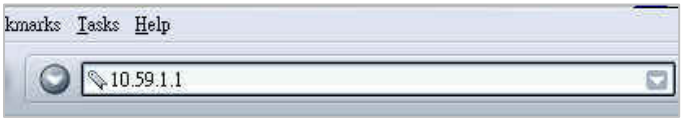


Figure 189 Web Browser Location Field (Factory Default)

Step 2: The Wireless Subscriber Gateway configuration main menu will appear. Enter **account** as the Username and **account** as the password and click **Login**

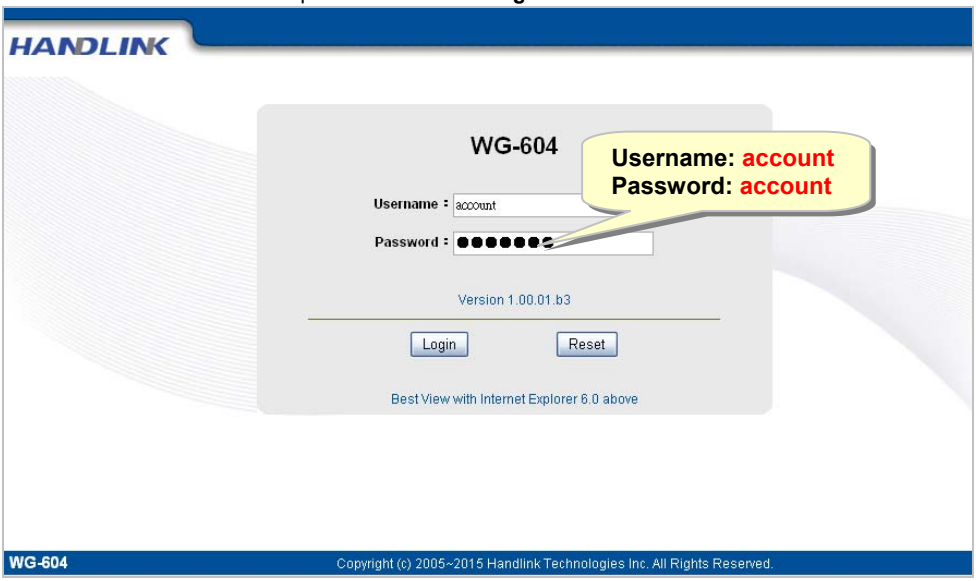


Figure 190 Web-Based Accounting Manager Login Screen

Step 3: After a valid user name and password have been provided, the account Generator Panel homepage will appear.

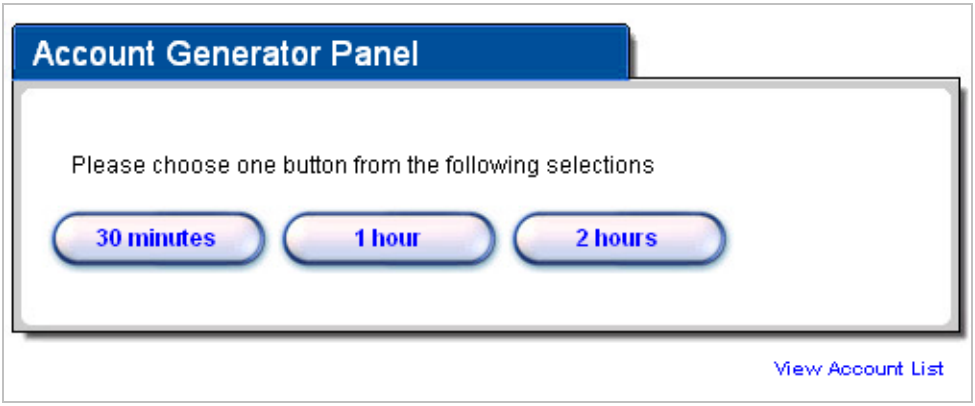


Figure 191 Account Generator Panel

- **Supervisor Account**

Step 1: Start your Web browser and enter the factory default IP address **10.59.1.1** in your browser's location box. Press Enter.

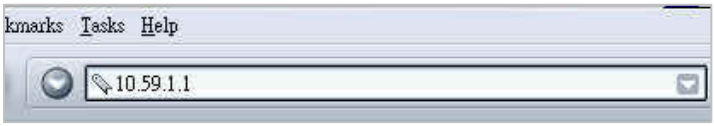


Figure 192 Web Browser Location Field (Factory Default)

Step 2: The Wireless Subscriber Gateway configuration main menu will appear. Enter **supervisor** as the Username and **supervisor** as the password and click **Login**.

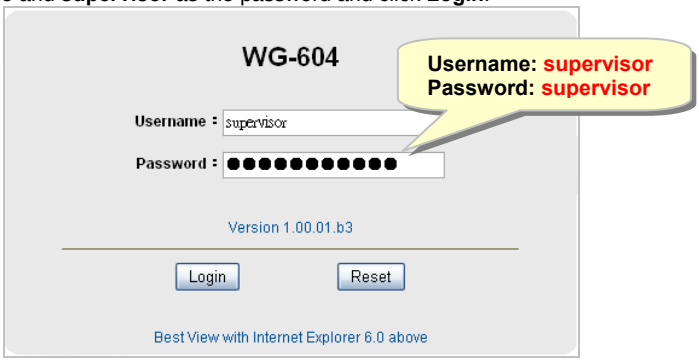


Figure 193 Supervisor Account Login Screen

Step 3: After a valid user name and password have been provided, the Wireless Subscriber Gateway *configuration homepage will appear.*

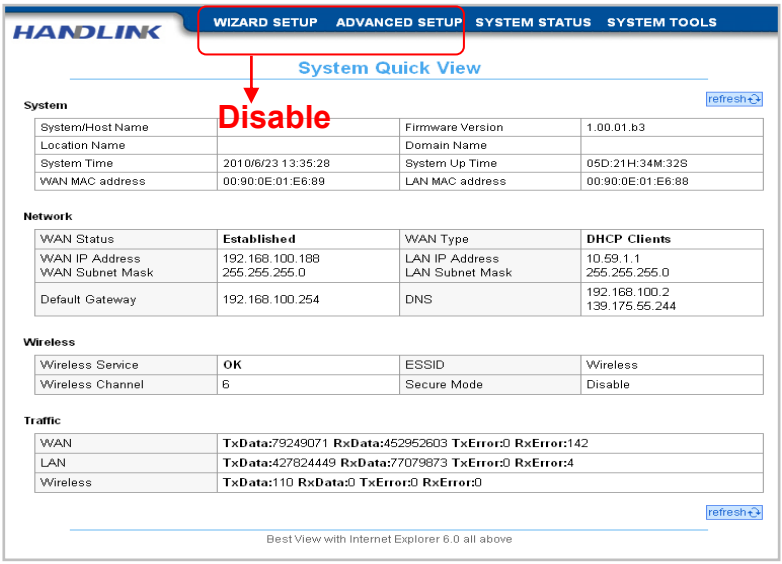


Figure 194 System Status Screen

- **Super Subscriber Account**

Start your Web Browser; a subscriber login page will appear. Enter **super** as the Username and **super** as the password and click **Enter**, you can use Internet now

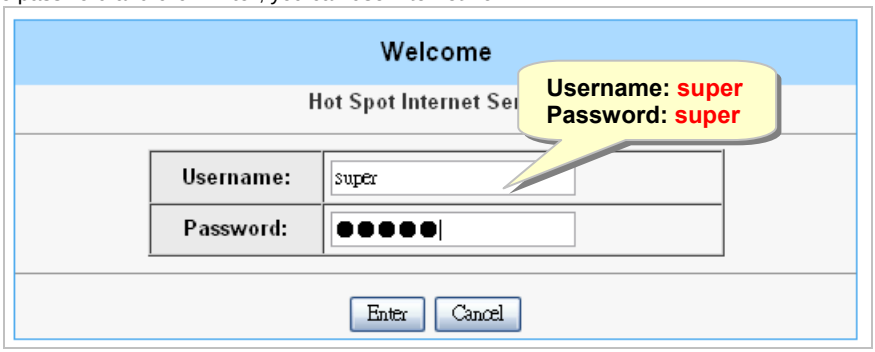


Figure 195 Subscriber Login Page

3-4-5 SSL Certificate

The function allows you to download the registered CA certificate into the Wireless Subscriber Gateway.

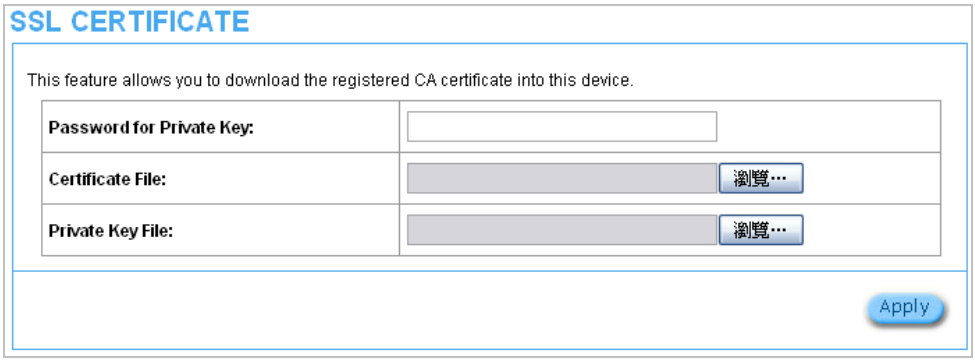


Figure 196 SSL Certificate Download Setting Screen

Note: *The password field must the same as the CA's registered password.*

3-4-6 Pin Command

The Ping function can check the Wireless Subscriber Gateway networking connective or not.

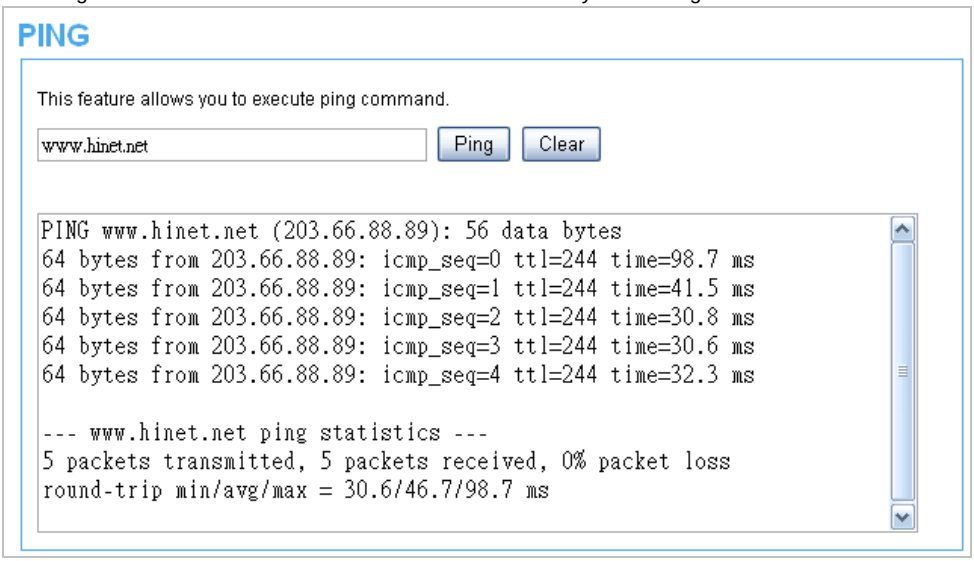

PING
This feature allows you to execute ping command.
www.hinet.net
Ping
Clear
PING www.hinet.net (203.66.88.89): 56 data bytes
64 bytes from 203.66.88.89: icmp_seq=0 ttl=244 time=98.7 ms
64 bytes from 203.66.88.89: icmp_seq=1 ttl=244 time=41.5 ms
64 bytes from 203.66.88.89: icmp_seq=2 ttl=244 time=30.8 ms
64 bytes from 203.66.88.89: icmp_seq=3 ttl=244 time=30.6 ms
64 bytes from 203.66.88.89: icmp_seq=4 ttl=244 time=32.3 ms
--- www.hinet.net ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 30.6/46.7/98.7 ms

Figure 197 Ping Command Screen

Item	Description
IP or URL	Enter the IP address or the URL link.

3-4-7 Restart

If your Wireless Subscriber Gateway is not operating correctly, you can choose this option to display the restart Wireless Subscriber Gateway screen. Clicking the apply button restart the Wireless Subscriber Gateway, with all of your settings remaining intact.

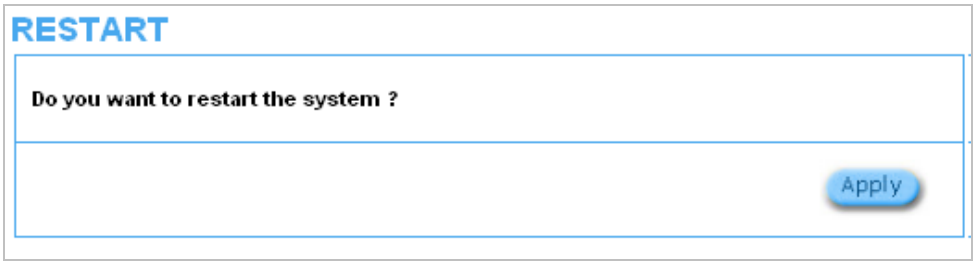


Figure 198 Restart Screen

3-4-8 Logout

If you would like to leave the configuration page, please click apply to exit.

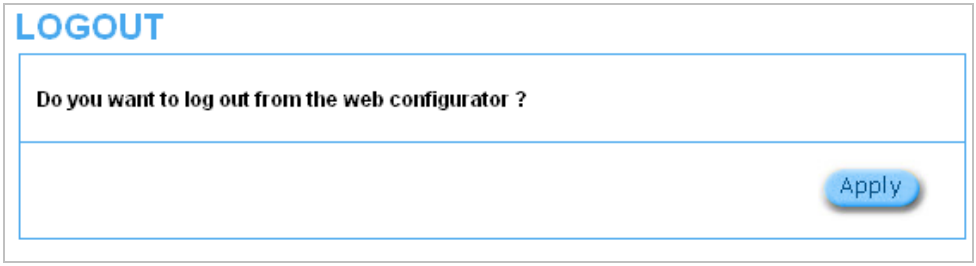


Figure 199 Logout Screen

Appendix A Signal Connection Arrangements

RJ-45 Ethernet Port

The Wireless Subscriber Gateway RJ-45 Ethernet port can connect to any networking devices that use a standard LAN interface, such as a Hub/Switch Hub or Router. Use unshielded twisted-pair (UTP) or shield twisted-pair (STP) cable to connect the networking device to the RJ-45 Ethernet port. Depending on the type of connection, 10Mbps or 100Mbps, use the following Ethernet cable, as prescribed.

10Mbps: Use EIA/TIA-568-100-Category 3, 4 or 5 cable.
100Mbps: Use EIA/TIA-568-100-Category 5 cable.

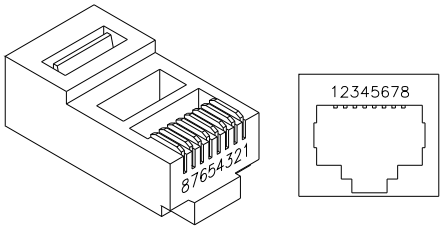


Figure 200 RJ-45 Connector and Cable Pins

Note: *To prevent loss of signal, make sure that the length of any twisted-pair connection does not exceed 100 meters.*

Appendix B Regulations/EMI Compliance

FCC Regulatory Statement

Part 15-Class B compliant device

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including that which may cause undesired operation.

This equipment has been test and found to comply with the limits for a computing device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. The equipment and the receiver should be connected the outlets on separate circuits.
4. Consult the dealer or an experienced radio/television technician for help.

Changes or modification not expressly approved be the party responsible for compliance could void the user's authority to operate the equipment.

LIMITED WARRANTY

Easy Hotspot Kit

What the warranty covers:

We warrant its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, we will at its sole option repair or replace the product with a like product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:

The Easy Hotspot Kit is warranted for one year for all parts and one year for all labor from the date of the first consumer purchase.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product, on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
   a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
   b. Repair or attempted repair by anyone not authorized by us.
   c. Any damage of the product due to shipment.
   d. Removal or installation of the product.
   e. Causes external to the product, such as electric power fluctuations or failure.
   f. Use of supplies or parts not meeting our specifications.
   g. Normal wears and tear.
   h. Any other cause that does not relate to a product defect.
3. Removal, installation, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact our **Customer Support**.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address (d) a description of the problem and (e) the serial number of the product.
3. Take or ship the product prepaid in the original container to your dealer, and our service center.
4. For additional information, contact your dealer or our **Customer Service Center**.

Limitation of implied warranties:

THERE ARE NOWARRANTIED, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Exclusion of damages:

Our LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. We SHALL NOT BE LIABLE FOR:

1. DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBLITY OF SUCH DAMAGES.
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
3. ANY CLAIM AGAINST THE CUSOMER BY ANY OTHER PARTY.

P/N:6830604-0010G V1.00